

## 5496

65		70		75		80									
Ile	Pro	Gly	Pro	Ala	Phe	Asn	Pro	Ala	Ser	His	Pro	Ala	Ser	Ala	Pro
				85					90					95	
Thr	Ser	Ser	Ser	Ser	Ser	Ala	Phe	Arg	Pro	Val	Met	Pro	Ser	Arg	Gln
			100					105					110		
Ile	Val	Glu	Arg	Gln	Pro	Arg	Met	Leu	Asp	Phe	Arg	Val	Glu	Tyr	Arg
		115					120					125			
Asp	Arg	Asn	Val	Asp	Val	Val	Leu	Glu	Asp	Thr	Cys	Thr	Val	Gly	Glu
	130					135					140				
Ile	Lys	Gln	Ile	Leu	Glu	Asn	Glu	Leu	Gln	Ile	Pro	Val	Ser	Lys	Met
145				150					155						160
Leu	Leu	Lys	Gly	Trp	Lys	Thr	Gly	Asp	Val	Glu	Asp	Ser	Thr	Val	Leu
			165					170						175	
Lys	Ser	Leu	His	Leu	Pro	Lys	Asn	Asn	Ser	Leu	Tyr	Val	Leu	Thr	Pro
		180					185						190		
Asp	Leu	Pro	Pro	Pro	Ser	Ser	Ser	Ser	His	Ala	Gly	Ala	Leu	Gln	Glu
	195						200					205			
Ser	Leu	Asn	Gln	Asn	Phe	Met	Leu	Ile	Ile	Thr	His	Arg	Glu	Val	Gln
	210				215						220				
Arg	Glu	Tyr	Asn	Leu	Asn	Phe	Ser	Gly	Ser	Ser	Thr	Ile	Gln	Glu	Val
225				230					235					240	
Lys	Arg	Asn	Val	Tyr	Asp	Leu	Thr	Ser	Ile	Pro	Val	Arg	His	Gln	Leu
			245					250						255	
Trp	Glu	Gly	Trp	Pro	Thr	Ser	Ala	Thr	Asp	Asp	Ser	Met	Cys	Leu	Ala
		260						265					270		
Glu	Ser	Gly	Leu	Ser	Tyr	Pro	Cys	His	Arg	Leu	Thr	Val	Gly	Arg	Arg
	275						280					285			
Ser	Ser	Pro	Ala	Gln	Thr	Arg	Glu	Gln	Ser	Glu	Glu	Gln	Ile	Thr	Asp
	290					295					300				
Val	His	Met	Val	Ser	Asp	Ser	Asp	Gly	Asp	Asp	Phe	Glu	Asp	Ala	Thr
305				310					315					320	
Glu	Phe	Gly	Val	Asp	Asp	Gly	Glu	Val	Phe	Gly	Met	Ala	Ser	Ser	Ala
			325					330					335		
Leu	Arg	Lys	Ser	Pro	Met	Met	Pro	Glu	Asn	Ala	Glu	Asn	Glu	Gly	Asp

## 5497

340	345	350
Ala Leu Leu Gln Phe Thr Ala Glu Phe Ser Ser Arg Tyr Gly Asp Cys		
355	360	365
His Pro Val Phe Phe Ile Gly Ser Leu Glu Ala Ala Phe Gln Glu Ala		
370	375	380
Phe Tyr Val Lys Ala Arg Asp Arg Lys Leu Leu Ala Ile Tyr Leu His		
385	390	395
His Asp Glu Ser Val Leu Thr Asn Val Phe Cys Ser Gln Met Leu Cys		
405	410	415
Ala Glu Ser Ile Val Ser Tyr Leu Ser Gln Asn Phe Ile Thr Trp Ala		
420	425	430
Trp Asp Leu Thr Lys Asp Ser Asn Arg Ala Arg Phe Leu Thr Met Cys		
435	440	445
Asn Arg His Phe Gly Ser Val Val Ala Gln Thr Ile Arg Thr Gln Lys		
450	455	460
Thr Asp Gln Phe Pro Leu Phe Leu Ile Ile Met Gly Lys Arg Ser Ser		
465	470	475
Asn Glu Val Leu Asn Val Ile Gln Gly Asn Thr Thr Val Asp Glu Leu		
485	490	495
Met Met Arg Leu Met Ala Ala Met Glu Ile Phe Thr Ala Gln Gln Gln		
500	505	510
Glu Asp Ile Lys Asp Glu Asp Glu Arg Glu Ala Arg Glu Asn Val Lys		
515	520	525
Arg Glu Gln Asp Glu Ala Tyr Arg Leu Ser Leu Glu Ala Asp Arg Ala		
530	535	540
Lys Arg Glu Ala His Glu Arg Glu Met Ala Glu Gln Phe Arg Leu Glu		
545	550	555
Gln Ile Arg Lys Glu Gln Glu Glu Glu Arg Glu Ala Ile Arg Leu Ser		
565	570	575
Leu Glu Gln Ala Leu Pro Pro Glu Pro Lys Glu Glu Asn Ala Glu Pro		
580	585	590
Val Ser Lys Leu Arg Ile Arg Thr Pro Ser Gly Glu Phe Leu Glu Arg		
595	600	605
Arg Phe Leu Ala Ser Asn Lys Leu Gln Ile Val Phe Asp Phe Val Ala		

## 5498

610	615	620
Ser Lys Gly Phe Pro Trp Asp Glu Tyr Lys Leu Leu Ser Thr Phe Pro		
625	630	635 640
Arg Arg Asp Val Thr Gln Leu Asp Pro Asn Lys Ser Leu Leu Glu Val		
	645	650 655
Lys Leu Phe Pro Gln Glu Thr Leu Phe Leu Glu Ala Lys Glu		
	660	665 670

&lt;210&gt; 6273

&lt;211&gt; 496

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6273

Pro Thr Arg Xaa Pro Thr Arg Pro Ala Arg Gly Trp Glu Ala Ile Thr		
1	5	10 15
Tyr Leu Ala Leu Arg Lys Lys Thr Lys Ala Ser Met His Ser Phe Pro		
	20	25 30
Pro Leu Leu Leu Leu Leu Phe Trp Gly Val Val Ser His Ser Phe Pro		
	35	40 45
Ala Thr Leu Glu Thr Gln Glu Gln Asp Val Asp Leu Val Gln Lys Tyr		
	50	55 60
Leu Glu Lys Tyr Tyr Asn Leu Lys Asn Asp Gly Arg Gln Val Glu Lys		
	65	70 75 80
Arg Arg Asn Ser Gly Pro Val Val Glu Lys Leu Lys Gln Met Gln Glu		
	85	90 95
Phe Phe Gly Leu Lys Val Thr Gly Lys Pro Asp Ala Glu Thr Leu Lys		
	100	105 110
Val Met Lys Gln Pro Arg Cys Gly Val Pro Asp Val Ala Gln Phe Val		
	115	120 125
Leu Thr Glu Gly Asn Pro Arg Trp Glu Gln Thr His Leu Thr Tyr Arg		
	130	135 140

## 5499

Ile	Glu	Asn	Tyr	Thr	Pro	Asp	Leu	Pro	Arg	Ala	Asp	Val	Asp	His	Ala	145	150	155	160
Ile	Glu	Lys	Ala	Phe	Gln	Leu	Trp	Ser	Asn	Val	Thr	Pro	Leu	Thr	Phe	165	170	175	
Thr	Lys	Val	Ser	Glu	Gly	Gln	Ala	Asp	Ile	Met	Ile	Ser	Phe	Val	Arg	180	185	190	
Gly	Asp	His	Arg	Asp	Asn	Ser	Pro	Phe	Asp	Gly	Pro	Gly	Gly	Asn	Leu	195	200	205	
Ala	His	Ala	Phe	Gln	Pro	Gly	Pro	Gly	Ile	Gly	Gly	Asp	Ala	His	Phe	210	215	220	
Asp	Glu	Asp	Glu	Arg	Trp	Thr	Asn	Asn	Phe	Arg	Glu	Tyr	Asn	Leu	His	225	230	235	240
Arg	Val	Ala	Ala	His	Glu	Leu	Gly	His	Ser	Leu	Gly	Leu	Ser	His	Ser	245	250	255	
Thr	Asp	Ile	Gly	Ala	Leu	Met	Tyr	Pro	Ser	Tyr	Thr	Phe	Ser	Gly	Asp	260	265	270	
Val	Gln	Leu	Ala	Gln	Asp	Asp	Ile	Asp	Gly	Ile	Gln	Ala	Ile	Tyr	Gly	275	280	285	
Arg	Ser	Gln	Asn	Pro	Val	Gln	Pro	Ile	Gly	Pro	Gln	Thr	Pro	Lys	Ala	290	295	300	
Cys	Asp	Ser	Lys	Leu	Thr	Phe	Asp	Ala	Ile	Thr	Thr	Ile	Arg	Gly	Glu	305	310	315	320
Val	Met	Phe	Phe	Lys	Asp	Arg	Phe	Tyr	Met	Arg	Thr	Asn	Pro	Phe	Tyr	325	330	335	
Pro	Glu	Val	Glu	Leu	Asn	Phe	Ile	Ser	Val	Phe	Trp	Pro	Gln	Leu	Pro	340	345	350	
Asn	Gly	Leu	Glu	Ala	Ala	Tyr	Glu	Phe	Ala	Asp	Arg	Asp	Glu	Val	Arg	355	360	365	
Phe	Phe	Lys	Gly	Asn	Lys	Tyr	Trp	Ala	Val	Gln	Gly	Gln	Asn	Val	Leu	370	375	380	
His	Gly	Tyr	Pro	Lys	Asp	Ile	Tyr	Ser	Ser	Phe	Gly	Phe	Pro	Arg	Thr	385	390	395	400
Val	Lys	His	Ile	Asp	Ala	Ala	Leu	Ser	Glu	Glu	Asn	Thr	Gly	Lys	Thr	405	410	415	



## 5500

Tyr Phe Phe Val Ala Asn Lys Tyr Trp Arg Tyr Asp Glu Tyr Lys Arg  
420 425 430

Ser Met Asp Pro Gly Tyr Pro Lys Met Ile Ala His Asp Phe Pro Gly  
435 440 445

Ile Gly His Lys Val Asp Ala Val Phe Met Lys Asp Gly Phe Phe Tyr  
450 455 460

Phe Phe His Gly Thr Arg Gln Tyr Lys Phe Asp Pro Lys Thr Lys Arg  
465 470 475 480

Ile Leu Thr Leu Gln Lys Ala Asn Ser Trp Phe Asn Cys Arg Lys Asn  
485 490 495

<210> 6274

<211> 95

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6274

## 5501

Arg Leu Pro Arg Gln Lys Ser Arg Xaa Lys Leu Ser Xaa Ser His Val  
 1 5 10 15  
 Thr Gln Xaa Arg Leu Ile Lys Phe Phe Xaa Leu Phe Pro Ile Ile Phe  
 20 25 30  
 Xaa Met Ser Lys Leu Thr Lys Arg Ser Lys Gly Phe Leu Gly Leu Leu  
 35 40 45  
 Thr Ser Ser Val Glu Ile Leu Val Leu Cys Gly Gln Gly Lys Ala Lys  
 50 55 60  
 Ala Phe Leu Phe Ser Leu Cys Tyr Leu Glu Asp Arg Lys Thr Ser Cys  
 65 70 75 80  
 Leu His Pro Leu Ala Val Cys Arg Ile Thr Leu Ser Leu Arg Tyr  
 85 90 95

&lt;210&gt; 6275

&lt;211&gt; 135

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6275

Arg Pro Pro Ile Ser Ser Ala Gly His Leu Pro Gly Val Cys Lys Val  
 1 5 10 15  
 Ser Thr Asp Leu Leu Arg Glu Gly Ala Pro Ile Glu Pro Asp Pro Pro  
 20 25 30  
 Val Ser His Trp Lys Pro Glu Ala Val Gln Tyr Tyr Glu Asp Gly Ala  
 35 40 45  
 Arg Ile Glu Ala Ala Phe Arg Asn Tyr Ile His Arg Ala Asp Ala Arg  
 50 55 60  
 Gln Glu Glu Asp Ser Tyr Glu Ile Phe Ile Cys His Ala Asn Val Ile  
 65 70 75 80  
 Arg Tyr Ile Val Cys Arg Ala Leu Gln Phe Pro Pro Glu Gly Trp Leu  
 85 90 95  
 Arg Leu Ser Leu Asn Asn Gly Ser Ile Thr His Leu Val Ile Arg Pro  
 100 105 110  
 Asn Gly Arg Val Ala Leu Arg Thr Leu Gly Asp Thr Gly Phe Met Pro  
 115 120 125  
 Pro Asp Lys Ile Thr Arg Ser

## 5502

130

135

&lt;210&gt; 6276

&lt;211&gt; 159

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6276

Thr Ser His Ala Arg Phe Gln Ala Leu His Ala Thr Gly Ser Val Leu  
1 5 10 15

Ala Ala Ser Ser Leu Ser Trp Asn Ser Ser Ser Gln Leu Leu Leu Pro  
20 25 30

Glu Phe Gln Gly Glu Pro Pro Ser Ala Pro Ser Glu Tyr Ala Gly Leu  
35 40 45

Val Val Arg Thr Val Leu Glu Pro Val Leu Gln Gly Leu Gln Gly Leu  
50 55 60

Pro Pro Gln Ala Gln Ala Pro Ala Leu Gly Gln Ala Leu Thr Ala Ile  
65 70 75 80

Val Gly Ala Trp Leu Asp His Ile Leu Thr His Gly Ile Arg Phe Arg  
85 90 95

Ser Gly Val Lys Val Glu Val Ala Gly Gly Glu Trp Asn Trp Glu Lys  
100 105 110

Glu Gly Asp Lys Trp Glu Arg Gln Glu Gly Gln Val Ala Ile Leu Tyr  
115 120 125

Leu Cys Leu Gln Pro Ala Gly Ser Ala Ala Ala Gln Thr Arg Leu Trp  
130 135 140

Ser Gly Gln Gly Val Ala Gly Arg Gly Ala Val Glu Pro Val Pro  
145 150 155

&lt;210&gt; 6277

&lt;211&gt; 87

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5503

&lt;400&gt; 6277

Ala Gln Gly Ala Ala Trp Xaa Cys Gln Ser Pro Gly Pro Arg Ala Leu  
 1 5 10 15

Leu Glu Arg Arg Gln Thr Glu Ala Ala Gly Pro Ala Ser Arg Arg Arg  
 20 25 30

Gly Glu Met Ser Asp Cys Tyr Thr Glu Leu Glu Lys Ala Val Ile Val  
 35 40 45

Leu Val Glu Asn Phe Tyr Lys Tyr Val Ser Lys Tyr Ser Leu Val Lys  
 50 55 60

Asn Lys Ile Ser Lys Ser Ser Phe Arg Glu Met Leu Gln Lys Glu Leu  
 65 70 75 80

Asn His Met Leu Ser His Cys  
 85

&lt;210&gt; 6278

&lt;211&gt; 383

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6278

His Ala Ser Ala His Ala Ser Gly Ala Leu Pro Gly Leu Thr Ala Thr  
 1 5 10 15

Pro Glu Ala Met Leu Arg Phe Leu Pro Asp Leu Ala Phe Ser Phe Leu  
 20 25 30

Leu Ile Leu Ala Leu Gly Gln Ala Val Gln Phe Gln Glu Tyr Val Phe  
 35 40 45

Leu Gln Phe Leu Gly Leu Asp Lys Ala Pro Ser Pro Gln Lys Phe Gln  
 50 55 60

Pro Val Pro Tyr Ile Leu Lys Lys Ile Phe Gln Asp Arg Glu Ala Ala  
 65 70 75 80

Ala Thr Thr Gly Val Ser Arg Asp Leu Cys Tyr Val Lys Glu Leu Gly  
 85 90 95

Val Arg Gly Asn Val Leu Arg Phe Leu Pro Asp Gln Gly Phe Phe Leu  
 100 105 110

Tyr Pro Lys Lys Ile Ser Gln Ala Ser Ser Cys Leu Gln Lys Leu Leu  
 115 120 125

## 5504

Tyr	Phe	Asn	Leu	Ser	Ala	Ile	Lys	Glu	Arg	Glu	Gln	Leu	Thr	Leu	Ala	130	135	140	
Gln	Leu	Gly	Leu	Asp	Leu	Gly	Pro	Asn	Ser	Tyr	Tyr	Asn	Leu	Gly	Pro	145	150	155	160
Glu	Leu	Glu	Leu	Ala	Leu	Phe	Leu	Val	Gln	Glu	Pro	His	Val	Trp	Gly	165	170	175	
Gln	Thr	Thr	Pro	Lys	Pro	Gly	Lys	Met	Phe	Val	Leu	Arg	Ser	Val	Pro	180	185	190	
Trp	Pro	Gln	Gly	Ala	Val	His	Phe	Asn	Leu	Leu	Asp	Val	Ala	Lys	Asp	195	200	205	
Trp	Asn	Asp	Asn	Pro	Arg	Lys	Asn	Phe	Gly	Leu	Phe	Leu	Glu	Ile	Leu	210	215	220	
Val	Lys	Glu	Asp	Arg	Asp	Ser	Gly	Val	Asn	Phe	Gln	Pro	Glu	Asp	Thr	225	230	235	240
Cys	Ala	Arg	Leu	Arg	Cys	Ser	Leu	His	Ala	Ser	Leu	Leu	Val	Val	Thr	245	250	255	
Leu	Asn	Pro	Asp	Gln	Cys	His	Pro	Ser	Arg	Lys	Arg	Arg	Ala	Ala	Ile	260	265	270	
Pro	Val	Pro	Lys	Leu	Ser	Cys	Lys	Asn	Leu	Cys	His	Arg	His	Gln	Leu	275	280	285	
Phe	Ile	Asn	Phe	Arg	Asp	Leu	Gly	Trp	His	Lys	Trp	Ile	Ile	Ala	Pro	290	295	300	
Lys	Gly	Phe	Met	Ala	Asn	Tyr	Cys	His	Gly	Glu	Cys	Pro	Phe	Ser	Leu	305	310	315	320
Thr	Ile	Ser	Leu	Asn	Ser	Ser	Asn	Tyr	Ala	Phe	Met	Gln	Ala	Leu	Met	325	330	335	
His	Ala	Val	Asp	Pro	Glu	Ile	Pro	Gln	Ala	Val	Cys	Ile	Pro	Thr	Lys	340	345	350	
Leu	Ser	Pro	Ile	Ser	Met	Leu	Tyr	Gln	Asp	Asn	Asn	Asp	Asn	Val	Ile	355	360	365	
Leu	Arg	His	Tyr	Glu	Asp	Met	Val	Val	Asp	Glu	Cys	Gly	Cys	Gly		370	375	380	

## 5505

&lt;210&gt; 6279

&lt;211&gt; 70

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6279

Arg Gln Arg Arg Lys Gly Gly Gly Asn Asp Ser Arg Pro Lys Trp Pro  
 1 5 10 15

His Leu Glu Asp Thr Ser Asp Asp Asn His Cys Tyr Val Cys Ala Ile  
 20 25 30

Leu Phe Asn Ser Ala Val Tyr Val Val Asp Lys Leu Tyr Glu Ile Ser  
 35 40 45

Ser Leu Ser Arg Tyr Leu Glu Val Leu Asp Val Phe Lys Ser Gly Ser  
 50 55 60

Arg Ile Thr Leu Cys Lys  
 65 70

&lt;210&gt; 6280

&lt;211&gt; 112

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (32)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6280

Gly Thr Thr Asn Ile Phe Tyr Val Val Asn Ser Ile Lys Leu Ala Ser  
 1 5 10 15

Phe Gly Lys Lys Lys Lys Lys Lys Lys Asn Ser Arg Gly Gly Pro Xaa  
 20 25 30

Pro Asn Ser Pro Tyr Ser Glu Ser Xaa Tyr Asn Ser Leu Ala Val Val  
 35 40 45

Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg  
 50 55 60

## 5506

Leu Ala Ala His Pro Pro Phe Ala Ser Trp Arg Asn Ser Glu Glu Ala  
 65 70 75 80  
 Arg Thr Asp Arg Pro Ser Gln Gln Leu Arg Ser Leu Asn Gly Glu Trp  
 85 90 95  
 Gln Ile Val Ser Val Asn Ile Leu Leu Lys Phe Ala Leu Asn Phe Cys  
 100 105 110

&lt;210&gt; 6281

&lt;211&gt; 64

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6281

Asn Leu Gly Thr Leu Lys Lys Glu Gln Asp Asn Ser Tyr Val Gln Gly  
 1 5 10 15  
 Thr Arg Glu Ile Thr Ile Arg Ser Gly Cys Leu Xaa Ala Arg Gln Asn  
 20 25 30  
 Arg Thr Ile Phe Leu Phe Phe Gln Lys Gln Ile Gly Glu Ile Ser Leu  
 35 40 45  
 Asn Ser Phe Ser Gln Gln Arg Thr Ala Trp Arg Lys Arg Val Cys Ser  
 50 55 60

&lt;210&gt; 6282

&lt;211&gt; 469

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6282

Val Arg Gly Leu Ser Gly Ser Cys Pro Gly Cys Ser Pro Leu Glu Pro  
 1 5 10 15

## 5507

Gly	Ser	Arg	Gly	Arg	Gly	Ala	Ala	Ala	Trp	Arg	Ile	Leu	Arg	Cys	Arg			
			20					25					30					
Arg	Leu	Pro	Glu	Pro	Ser	Pro	Phe	Leu	Thr	Gln	Pro	Asn	Leu	Ala	Gln			
		35					40					45						
Ser	Gln	Pro	Pro	Ala	Pro	Val	Pro	Val	Thr	Asp	Pro	Ser	Val	Thr	Met			
	50					55					60							
His	Pro	Ala	Val	Phe	Leu	Ser	Leu	Pro	Asp	Leu	Arg	Cys	Ser	Leu	Leu			
	65				70				75						80			
Leu	Leu	Val	Thr	Trp	Val	Phe	Thr	Pro	Val	Thr	Thr	Glu	Ile	Thr	Ser			
				85				90						95				
Leu	Asp	Thr	Glu	Asn	Ile	Asp	Glu	Ile	Leu	Asn	Asn	Ala	Asp	Val	Ala			
			100					105					110					
Leu	Val	Asn	Phe	Tyr	Ala	Asp	Trp	Cys	Arg	Phe	Ser	Gln	Met	Leu	His			
		115					120					125						
Pro	Ile	Phe	Glu	Glu	Ala	Ser	Asp	Val	Ile	Lys	Glu	Glu	Phe	Pro	Asn			
	130					135					140							
Glu	Asn	Gln	Val	Val	Phe	Ala	Arg	Val	Asp	Cys	Asp	Gln	His	Ser	Asp			
	145				150					155					160			
Ile	Ala	Gln	Arg	Tyr	Arg	Ile	Ser	Lys	Tyr	Pro	Thr	Leu	Lys	Leu	Phe			
				165				170						175				
Arg	Asn	Gly	Met	Met	Met	Lys	Arg	Glu	Tyr	Arg	Gly	Gln	Arg	Ser	Val			
			180					185					190					
Lys	Ala	Leu	Ala	Asp	Tyr	Ile	Arg	Gln	Gln	Lys	Ser	Asp	Pro	Ile	Gln			
		195					200					205						
Glu	Ile	Arg	Asp	Leu	Ala	Glu	Ile	Thr	Thr	Leu	Asp	Arg	Ser	Lys	Arg			
	210					215					220							
Asn	Ile	Ile	Gly	Tyr	Phe	Glu	Gln	Lys	Asp	Ser	Asp	Asn	Tyr	Arg	Val			
	225				230					235					240			
Phe	Glu	Arg	Val	Ala	Asn	Ile	Leu	His	Asp	Asp	Cys	Ala	Phe	Leu	Ser			
				245					250					255				
Ala	Phe	Gly	Asp	Val	Ser	Lys	Pro	Glu	Arg	Tyr	Ser	Gly	Asp	Asn	Ile			
			260					265					270					
Ile	Tyr	Lys	Pro	Pro	Gly	His	Ser	Ala	Pro	Asp	Met	Val	Tyr	Leu	Gly			
		275					280					285						



## 5508

Ala Met Thr Asn Phe Asp Val Thr Tyr Asn Trp Ile Gln Asp Lys Cys  
 290 295 300  
 Val Pro Leu Val Arg Glu Ile Thr Phe Glu Asn Gly Glu Glu Leu Thr  
 305 310 315 320  
 Glu Glu Gly Leu Pro Phe Leu Ile Leu Phe His Met Lys Glu Asp Thr  
 325 330 335  
 Glu Ser Leu Glu Ile Phe Gln Asn Glu Val Ala Arg Gln Leu Ile Ser  
 340 345 350  
 Glu Lys Gly Thr Ile Asn Phe Leu His Ala Asp Cys Asp Lys Phe Arg  
 355 360 365  
 His Pro Leu Leu His Ile Gln Lys Thr Pro Ala Asp Cys Pro Val Ile  
 370 375 380  
 Ala Ile Asp Ser Phe Arg His Met Tyr Val Phe Gly Asp Phe Lys Asp  
 385 390 395 400  
 Val Leu Ile Pro Gly Lys Leu Lys Gln Phe Val Phe Asp Leu His Ser  
 405 410 415  
 Gly Lys Leu His Arg Glu Phe His His Gly Pro Asp Pro Thr Asp Thr  
 420 425 430  
 Ala Pro Gly Glu Gln Ala Gln Asp Val Ala Ser Ser Pro Pro Glu Ser  
 435 440 445  
 Ser Phe Gln Lys Leu Ala Pro Ser Glu Tyr Arg Tyr Thr Leu Leu Arg  
 450 455 460  
 Asp Arg Asp Glu Leu  
 465

&lt;210&gt; 6283

&lt;211&gt; 172

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6283

Pro Arg Gly Ala Arg Gln Asp Thr Glu Ala Gly Ser Pro Trp Cys Ser  
 1 5 10 15  
 Tyr Arg His Gly Pro Leu Ser Ser Arg Gln Asp Cys Pro Arg Ala Trp  
 20 25 30  
 Gln Trp Arg Gln Pro His Arg Pro Gly His Leu Gln Asp Val Pro Pro

## 5509

35	40	45
Pro Gly Ile His Leu Gln Arg Leu Ser Gln Pro Gly Pro Arg Glu Ala		
50	55	60
Leu Arg Glu Cys Pro Ser Gln Trp Pro Leu Ile Arg Gly Arg His Leu		
65	70	75
Cys Gln Leu Arg Gln Pro Gln Gly Asp Ser Gly Pro Ala Gly Leu Gly		
85	90	95
Arg Arg Asp Gly Pro Ser Ala Phe Cys His Pro Ala Arg Cys Cys His		
100	105	110
Cys Ser Arg Gln Cys Pro Ala Pro Gly Leu Cys Ala Gly Gly Val Leu		
115	120	125
Ala Ala Leu Pro Ser Ser Gly Leu Trp Glu Lys Gly Thr Met Asp Ala		
130	135	140
Val Gly His Gly His Asp Gly Ala Ser Arg Arg Val Thr Leu Gly Leu		
145	150	155
Gln Gly Asp Ile Lys Gly Gln Gly Cys Leu Leu Arg		
165	170	

&lt;210&gt; 6284

&lt;211&gt; 140

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (80)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6284

Pro Ser Pro Pro Ser Pro Pro Cys Asn Thr Thr Ala Leu Gly Ala Leu
1 5 10 15
Ser Thr Ser Ile Met Gly Pro Arg Pro His Ala Tyr Phe Gly Pro Glu
20 25 30
Ala Ser Ala Ser Lys Phe Lys Leu Leu His Pro Asp Phe Ile Ser Tyr
35 40 45
Leu Thr Glu Arg Phe Leu Lys Ser Lys Leu Ile Asn Thr His Phe Gly
50 55 60

## 5510

Asp Leu Tyr Met Pro Ser Thr Gly Ala Leu Met Leu Leu Thr Ala Xaa  
 65 70 75 80

His Thr Cys Asp Gln Val Ser Ala Tyr Gly Phe Ile Thr Ser Asn Tyr  
 85 90 95

Trp Lys Phe Ser Asp His Tyr Phe Glu Arg Lys Met Lys Pro Leu Ile  
 100 105 110

Phe Tyr Ala Asn His Asp Leu Ser Leu Glu Ala Ala Leu Trp Arg Asp  
 115 120 125

Leu His Lys Ala Gly Ile Leu Gln Leu Tyr Gln Arg  
 130 135 140

<210> 6285

<211> 137

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (133)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6285

Ile Tyr Cys Ala Leu Leu Gly Cys Met Asp Asp Tyr Thr Thr Asp Ser  
 1 5 10 15

Arg Gly Asp Val Gly Thr Trp Val Arg Lys Ala Ala Met Thr Ser Leu  
 20 25 30

Met Asp Leu Thr Leu Leu Leu Ala Arg Ser Gln Pro Glu Leu Ile Glu  
 35 40 45

## 5511

Ala His Thr Cys Glu Arg Ile Met Cys Cys Val Ala Gln Gln Ala Ser  
 50 55 60

Glu Lys Ile Asp Arg Phe Arg Ala His Ala Ala Ser Val Phe Leu Thr  
 65 70 75 80

Leu Leu His Phe Asp Ser Pro Pro Ile Pro His Val Pro His Arg Gly  
 85 90 95

Glu Leu Glu Lys Leu Phe Pro Arg Ser Asp Val Ala Ser Val Asn Trp  
 100 105 110

Ser Ala Xaa Ser Gln Ala Phe Pro Arg Ile Thr Xaa Pro Trp Val Ala  
 115 120 125

Thr Tyr Gly Xaa Xaa Ser Trp Trp Gly  
 130 135

&lt;210&gt; 6286

&lt;211&gt; 120

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6286

Arg Trp Gly Ser Lys Ser Pro Thr Ala Leu Pro Ile Phe Leu Glu Leu  
 1 5 10 15

Thr Ala Gly Val Leu Ala Phe Val Phe Lys Asp Trp Ile Lys Asp Gln  
 20 25 30

Leu Tyr Phe Phe Ile Xaa Asn Asn Ile Arg Ala Tyr Arg Asp Asp Ile  
 35 40 45

Asp Leu Gln Asn Leu Ile Asp Phe Thr Gln Glu Tyr Trp Gln Cys Cys  
 50 55 60

Gly Ala Phe Gly Ala Asp Asp Trp Asn Leu Asn Ile Tyr Phe Asn Cys  
 65 70 75 80

Thr Asp Ser Asn Ala Ser Arg Glu Arg Cys Gly Val Pro Phe Ser Cys  
 85 90 95

Cys Thr Lys Asp Pro Ala Glu Asp Val Ile Asn Thr Glu Cys Gly Tyr

5512

100 105 110  
 Gly Cys Gln Ala Lys Thr Arg Ser  
 115 120  
  
 <210> 6287  
 <211> 153  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 6287  
 Ser Thr His Ala Ser Gly Ser Pro Ser Pro Ala Asn His Gly Glu Leu  
 1 5 10 15  
 Gly Ser Val Pro Gly Gly Arg Arg Arg Gly Cys Gln Ala Pro Gly Thr  
 20 25 30  
 Arg Gly Val Cys Arg Met Pro Val Thr Arg Leu His Glu Gly Arg Phe  
 35 40 45  
 His Leu Arg His Arg His Arg His Gly Leu Trp Leu Ala Asp Val His  
 50 55 60  
 Ser Glu Glu Val Ser Ile Pro Phe Ala Val Glu Pro Pro Ser Gly Arg  
 65 70 75 80  
 Gly Cys Arg Leu Cys Gly Gln Leu Arg Gly Asp Glu Ser Gly Val Gly  
 85 90 95  
 Glu Met Gln Gln Pro Leu Ala Leu Pro Gly Asp Arg Ala Ala Pro Gln  
 100 105 110  
 Arg Gln Glu His Arg Ser Glu Lys Leu Gly Glu Leu Gln Gln Gly His  
 115 120 125  
 Arg Gly Leu Gly Ala Gly Gly Val Trp Asn Thr Ala Phe Met Pro Pro  
 130 135 140  
 Asp Pro Arg Pro Thr Leu Pro Thr Pro  
 145 150

<210> 6288  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 6288

## 5513

Ala Lys Ile Ala Lys Glu Glu Ile Phe Gly Pro Val Met Gln Ile Leu  
 1 5 10 15  
 Lys Phe Lys Thr Ile Glu Glu Val Val Gly Arg Ala Asn Asn Ser Thr  
 20 25 30  
 Tyr Gly Leu Ala Ala Ala Val Phe Thr Lys Asp Leu Asp Lys Ala Asn  
 35 40 45  
 Tyr Leu Ser Gln Ala Leu Gln Ala Gly Thr Val Trp Val Asn Cys Tyr  
 50 55 60  
 Asp Val Phe Gly Ala Gln Ser Pro Phe Gly Gly Tyr Lys Met Ser Gly  
 65 70 75 80  
 Ser Gly Arg Glu Leu Gly Glu Tyr Gly Leu Gln Ala Tyr Thr Glu Val  
 85 90 95  
 Lys Thr Val Thr Val Lys Val Pro Gln Lys Asn Ser  
 100 105

&lt;210&gt; 6289

&lt;211&gt; 341

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (225)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (231)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (291)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6289

Met Asn Thr Asn Trp Pro Ala Ser Val Gln Val Ser Val Asn Ala Thr  
 1 5 10 15

Pro Leu Thr Ile Glu Arg Gly Asp Asn Lys Thr Ser His Lys Pro Leu  
 20 25 30

Tyr Leu Lys His Val Cys Gln Pro Gly Arg Asn Thr Ile Gln Ile Thr

## 5514

35	40	45
Val Thr Ala Cys Cys Cys Ser His Leu Phe Val Leu Gln Leu Val His		
50	55	60
Arg Pro Ser Val Arg Ser Val Leu Gln Gly Leu Leu Lys Lys Arg Leu		
65	70	75
Leu Pro Ala Glu His Cys Ile Thr Lys Ile Lys Arg Asn Phe Ser Ser		
	85	90
Gly Thr Ile Pro Gly Thr Pro Gly Pro Asn Gly Glu Asp Gly Val Glu		
	100	105
Gln Thr Ala Ile Lys Val Ser Leu Lys Cys Pro Ile Thr Phe Arg Arg		
	115	120
Ile Gln Leu Pro Ala Arg Gly His Asp Cys Arg His Ile Gln Cys Phe		
	130	140
Asp Leu Glu Ser Tyr Leu Gln Leu Asn Cys Glu Arg Gly Thr Trp Arg		
145	150	155
Cys Pro Val Cys Asn Lys Thr Ala Leu Leu Glu Gly Leu Glu Val Asp		
	165	170
Gln Tyr Met Leu Gly Ile Leu Ile Tyr Ile Gln Asn Ser Asp Tyr Glu		
	180	185
Glu Ile Thr Ile Asp Pro Thr Cys Ser Trp Lys Pro Val Pro Val Lys		
	195	200
Pro Asp Met His Ile Lys Glu Glu Pro Asp Gly Pro Ala Leu Lys Arg		
	210	220
Xaa Arg Thr Val Ser Pro Xaa His Val Leu Met Pro Ser Val Met Glu		
225	230	235
Met Ile Ala Ala Leu Gly Pro Gly Ala Ala Pro Phe Ala Pro Leu Gln		
	245	250
Pro Pro Ser Val Pro Pro Pro Ala Ser Arg Gln Ser Leu Gly Gln Ala		
	260	265
Ser Leu Gly Pro Thr Gly Glu Leu Ala Phe Ser Pro Ala Thr Gly Val		
	275	280
Met Gly Xaa Pro Ser Met Ser Gly Ala Gly Glu Ala Pro Glu Pro Ala		
	290	300
Leu Asp Leu Leu Pro Glu Leu Thr Asn Pro Asp Glu Leu Leu Ser Tyr		

## 5515

305                      310                      315                      320

Leu Gly Pro Pro Asp Leu Pro Thr Asn Asn Asn Asp Asp Leu Leu Ser  
                                 325                      330                      335

Leu Phe Glu Asn Asn  
                                 340

<210> 6290

<211> 235

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (156)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (214)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (229)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (233)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6290



## 5516

Ala Val Leu Cys Pro Ser Xaa Pro Cys Gln Xaa Pro Thr Gln Pro Pro  
 1 5 10 15  
 Gly Ala Cys Cys Pro Ser Cys Asp Ser Cys Thr Tyr His Ser Gln Val  
 20 25 30  
 Tyr Ala Asn Gly Gln Asn Phe Thr Asp Ala Asp Ser Pro Cys His Ala  
 35 40 45  
 Cys His Cys Gln Asp Gly Thr Val Thr Cys Ser Leu Val Asp Cys Pro  
 50 55 60  
 Xaa Thr Thr Cys Ala Arg Pro Gln Ser Gly Pro Gly Gln Cys Cys Pro  
 65 70 75 80  
 Arg Cys Pro Asp Cys Ile Leu Glu Glu Glu Val Phe Val Asp Gly Glu  
 85 90 95  
 Ser Phe Ser His Pro Arg Asp Pro Cys Gln Glu Cys Arg Cys Gln Glu  
 100 105 110  
 Gly His Ala His Cys Gln Pro Arg Pro Cys Pro Arg Ala Pro Cys Ala  
 115 120 125  
 His Pro Leu Pro Gly Thr Cys Cys Pro Asn Asp Cys Ser Gly Cys Ala  
 130 135 140  
 Phe Gly Gly Lys Glu Tyr Pro Ser Gly Ala Asp Xaa Pro His Pro Ser  
 145 150 155 160  
 Asp Pro Cys Arg Leu Cys Arg Cys Leu Ser Gly Asn Val Gln Cys Leu  
 165 170 175  
 Ala Arg Arg Cys Val Pro Leu Pro Cys Pro Glu Pro Val Leu Leu Pro  
 180 185 190  
 Gly Glu Cys Cys Pro Glu Trp Pro Lys Pro Pro Ser Pro Arg Pro Ala  
 195 200 205  
 Ala His Gly Pro Gly Xaa Gly Pro Thr Ala Arg Pro Pro Arg Lys Tyr  
 210 215 220  
 Leu Phe Ser Pro Xaa Pro Gly Asp Xaa Leu Gly  
 225 230 235

&lt;210&gt; 6291

&lt;211&gt; 55

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

## 5517

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (50)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6291

Ala	Asp	Asn	Asn	Phe	Thr	Gln	Glu	Thr	Ala	Met	Thr	Met	Ile	Thr	Pro
1				5					10				15		

Ser	Ser	Lys	Leu	Thr	Leu	Thr	Lys	Gly	Asn	Lys	Ser	Trp	Ser	Ser	Thr
			20					25					30		

Ala	Val	Ala	Ala	Ala	Leu	Glu	Leu	Val	Asp	Pro	Pro	Gly	Cys	Arg	Asn
		35					40						45		

Ser	Xaa	Arg	Ala	Lys	Leu	Gln
	50				55	

&lt;210&gt; 6292

&lt;211&gt; 421

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6292

Val	Gly	Asp	Cys	Cys	Val	Pro	Tyr	Leu	Asp	Pro	Glu	Gly	Thr	Ser	Leu
1				5					10					15	

Leu	Gly	Trp	Leu	Ser	Val	Ser	Leu	Leu	Ser	Ser	Gly	Glu	Ile	Thr	Ala
			20					25					30		

Ser	Ser	Ala	Pro	Arg	Met	Glu	Pro	Pro	Gly	Arg	Arg	Glu	Cys	Pro	Phe
		35					40					45			

Pro	Ser	Trp	Arg	Phe	Pro	Gly	Leu	Leu	Leu	Ala	Ala	Met	Val	Leu	Leu
		50				55				60					

Leu	Tyr	Ser	Phe	Ser	Asp	Ala	Cys	Glu	Glu	Pro	Pro	Thr	Phe	Glu	Ala
65					70					75				80	

Met	Glu	Leu	Ile	Gly	Lys	Pro	Lys	Pro	Tyr	Tyr	Glu	Ile	Gly	Glu	Arg
				85				90						95	

Val	Asp	Tyr	Lys	Cys	Lys	Lys	Gly	Tyr	Phe	Tyr	Ile	Pro	Pro	Leu	Ala
			100					105						110	

Thr	His	Thr	Ile	Cys	Asp	Arg	Asn	His	Thr	Trp	Leu	Pro	Val	Ser	Asp
			115				120					125			

## 5518

Asp	Ala	Cys	Tyr	Arg	Glu	Thr	Cys	Pro	Tyr	Ile	Arg	Asp	Pro	Leu	Asn	130	135	140	
Gly	Gln	Ala	Val	Pro	Ala	Asn	Gly	Thr	Tyr	Glu	Phe	Gly	Tyr	Gln	Met	145	150	155	160
His	Phe	Ile	Cys	Asn	Glu	Gly	Tyr	Tyr	Leu	Ile	Gly	Glu	Glu	Ile	Leu	165	170	175	
Tyr	Cys	Glu	Leu	Lys	Gly	Ser	Val	Ala	Ile	Trp	Ser	Gly	Lys	Pro	Pro	180	185	190	
Ile	Cys	Glu	Lys	Val	Leu	Cys	Thr	Pro	Pro	Pro	Lys	Ile	Lys	Asn	Gly	195	200	205	
Lys	His	Thr	Phe	Ser	Glu	Val	Glu	Val	Phe	Glu	Tyr	Leu	Asp	Ala	Val	210	215	220	
Thr	Tyr	Ser	Cys	Asp	Pro	Ala	Pro	Gly	Pro	Asp	Pro	Phe	Ser	Leu	Ile	225	230	235	240
Gly	Glu	Ser	Thr	Ile	Tyr	Cys	Gly	Asp	Asn	Ser	Val	Trp	Ser	Arg	Ala	245	250	255	
Ala	Pro	Glu	Cys	Lys	Val	Val	Lys	Cys	Arg	Phe	Pro	Val	Val	Glu	Asn	260	265	270	
Gly	Lys	Gln	Ile	Ser	Gly	Phe	Gly	Lys	Lys	Phe	Tyr	Tyr	Lys	Ala	Thr	275	280	285	
Val	Met	Phe	Glu	Cys	Asp	Lys	Gly	Phe	Tyr	Leu	Asp	Gly	Ser	Asp	Thr	290	295	300	
Ile	Val	Cys	Asp	Ser	Asn	Ser	Thr	Trp	Asp	Pro	Pro	Val	Pro	Lys	Cys	305	310	315	320
Leu	Lys	Val	Ser	Thr	Ser	Ser	Thr	Thr	Lys	Ser	Pro	Ala	Ser	Ser	Ala	325	330	335	
Ser	Gly	Pro	Arg	Pro	Thr	Tyr	Lys	Pro	Pro	Val	Ser	Asn	Tyr	Pro	Gly	340	345	350	
Tyr	Pro	Lys	Pro	Glu	Glu	Gly	Ile	Leu	Asp	Ser	Leu	Asp	Val	Trp	Val	355	360	365	
Ile	Ala	Val	Ile	Val	Ile	Ala	Ile	Val	Val	Gly	Val	Ala	Val	Ile	Cys	370	375	380	
Val	Val	Pro	Tyr	Arg	Tyr	Leu	Gln	Arg	Arg	Lys	Lys	Lys	Gly	Lys	Ala	385	390	395	400

5519

Asp Gly Gly Ala Glu Tyr Ala Thr Tyr Gln Thr Lys Ser Thr Thr Pro  
405 410 415

Ala Glu Gln Arg Gly  
420

<210> 6293

<211> 80

<212> PRT

<213> Homo sapiens

<400> 6293

Gly His Cys Gln Gly Leu Lys Pro Val Glu Gln Pro Leu Ala Met Ser  
1 5 10 15

Pro Leu Gln Tyr Ser Phe Met Ala Val Ile His Phe Ala Gly Leu Lys  
 . 20 25 30

Ala Val Gly Glu Ser Val Gln Lys Pro Leu Asp Tyr Tyr Arg Val Asn  
35 40 45

Leu Thr Gly Thr Ile Gln Leu Leu Glu Ile Met Lys Ala His Gly Val  
50 55 60

Lys Asn Leu Val Phe Ser Ser Ser Ala Thr Val Tyr Gly Asn Pro Gln  
65 70 75 80

<210> 6294

<211> 78

<212> PRT

<213> Homo sapiens

<400> 6294

Glu Ala Asp Cys Val Cys Val Cys Val Cys Val Cys Val Cys Val Cys  
1 5 10 15

Val Cys Ile Gln Thr His Ile Phe Leu Lys Cys Lys Tyr Ser Leu Phe  
20 25 30

Lys Lys Ile Ile Ile Thr Ala Lys Gln Ile Thr Ser Asn Ser Phe Ile  
35 40 45

Leu Ile Tyr Pro Val Phe Arg Phe Ser Arg Leu Ala Pro Asn Phe Phe  
50 55 60

5520

Thr Asp Tyr Leu Asn Leu Ile Gln Phe Met Tyr Cys Asn Val  
 65 70 75

&lt;210&gt; 6295

&lt;211&gt; 284

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6295

Phe Ser Val Val Asp Xaa Arg Lys Phe Ser Ala Val Ser Gly Glu Thr  
 1 5 10 15

Arg Gly Leu Arg Val Ser Leu Ser Val Phe Gln Ser Pro Gly Ala Val  
 20 25 30

Val Gln Gly Leu Gly Leu Val Met Ala Ser Pro Ser Arg Arg Leu Gln  
 35 40 45

Thr Lys Pro Val Ile Thr Cys Phe Lys Ser Val Leu Leu Ile Tyr Thr  
 50 55 60

Phe Ile Phe Trp Ile Thr Gly Val Ile Leu Leu Ala Val Gly Ile Trp  
 65 70 75 80

Gly Lys Val Ser Leu Glu Asn Tyr Phe Ser Leu Leu Asn Glu Lys Ala  
 85 90 95

Thr Asn Val Pro Phe Val Leu Ile Ala Thr Gly Thr Val Ile Ile Leu  
 100 105 110

Leu Gly Thr Phe Gly Cys Phe Ala Thr Cys Arg Ala Ser Ala Trp Met  
 115 120 125

Leu Lys Leu Tyr Ala Met Phe Leu Thr Leu Val Phe Leu Val Glu Leu  
 130 135 140

Val Ala Ala Ile Val Gly Phe Val Phe Arg His Glu Ile Lys Asn Ser  
 145 150 155 160

Phe Lys Asn Asn Tyr Glu Lys Ala Leu Lys Gln Tyr Asn Ser Thr Gly  
 165 170 175

Asp Tyr Arg Ser His Ala Val Asp Lys Ile Gln Asn Thr Leu His Cys

## 5521

180 185 190  
 Cys Gly Val Thr Asp Tyr Arg Asp Trp Thr Asp Thr Asn Tyr Tyr Ser  
 195 200 205  
 Glu Lys Gly Phe Pro Lys Ser Cys Cys Lys Leu Glu Asp Cys Thr Pro  
 210 215 220  
 Gln Arg Asp Ala Asp Lys Val Asn Asn Glu Gly Cys Phe Ile Lys Val  
 225 230 235 240  
 Met Thr Ile Ile Glu Ser Glu Met Gly Val Val Ala Gly Ile Ser Phe  
 245 250 255  
 Gly Val Ala Cys Phe Gln Leu Ile Gly Ile Phe Leu Ala Tyr Cys Leu  
 260 265 270  
 Ser Arg Ala Ile Thr Asn Asn Gln Tyr Glu Ile Val  
 275 280  
  
 <210> 6296  
 <211> 368  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 6296  
 Lys Thr Leu Ser Gly Gly Gly Arg Arg Gln Lys Gly Trp Asp Val Ser  
 1 5 10 15  
 Phe Lys Phe Pro Gly His Ser Leu Ile Val Leu Tyr Val Pro Ala Asp  
 20 25 30  
 Cys Gln Cys Asp Leu Thr Leu Ser Ser His Pro Ser Ser Val Pro Ala  
 35 40 45  
 Met Ser Ser Cys Asn Phe Thr His Ala Thr Phe Val Leu Ile Gly Ile  
 50 55 60  
 Pro Gly Leu Glu Lys Ala His Phe Trp Val Gly Phe Pro Leu Leu Ser  
 65 70 75 80  
 Met Tyr Val Val Ala Met Phe Gly Asn Cys Ile Val Val Phe Ile Val  
 85 90 95  
 Arg Thr Glu Arg Ser Leu His Ala Pro Met Tyr Leu Phe Leu Cys Met  
 100 105 110  
 Leu Ala Ala Ile Asp Leu Ala Leu Ser Thr Ser Thr Met Pro Lys Ile  
 115 120 125

## 5522

Leu Ala Leu Phe Trp Phe Asp Ser Arg Glu Ile Ser Phe Glu Ala Cys  
 130 135 140

Leu Thr Gln Met Phe Phe Ile His Ala Leu Ser Ala Ile Glu Ser Thr  
 145 150 155 160

Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys His Pro  
 165 170 175

Leu Arg His Ala Ala Val Leu Asn Asn Thr Val Thr Ala Gln Ile Gly  
 180 185 190

Ile Val Ala Val Val Arg Gly Ser Leu Phe Phe Phe Pro Leu Pro Leu  
 195 200 205

Leu Ile Lys Arg Leu Ala Phe Cys His Ser Asn Val Leu Ser His Ser  
 210 215 220

Tyr Cys Val His Gln Asp Val Met Lys Leu Ala Tyr Ala Asp Thr Leu  
 225 230 235 240

Pro Asn Val Val Tyr Gly Leu Thr Ala Ile Leu Leu Val Met Gly Val  
 245 250 255

Asp Val Met Phe Ile Ser Leu Ser Tyr Phe Leu Ile Ile Arg Thr Val  
 260 265 270

Leu Gln Leu Pro Ser Lys Ser Glu Arg Ala Lys Ala Phe Gly Thr Cys  
 275 280 285

Val Ser His Ile Gly Val Val Leu Ala Phe Tyr Val Pro Leu Ile Gly  
 290 295 300

Leu Ser Val Val His Arg Phe Gly Asn Ser Leu His Pro Ile Val Arg  
 305 310 315 320

Val Val Met Gly Asp Ile Tyr Leu Leu Leu Pro Pro Val Ile Asn Pro  
 325 330 335

Ile Ile Tyr Gly Ala Lys Thr Lys Gln Ile Arg Thr Arg Val Leu Ala  
 340 345 350

Met Phe Lys Ile Ser Cys Asp Lys Asp Leu Gln Ala Val Gly Gly Lys  
 355 360 365

## 5523

&lt;210&gt; 6297

&lt;211&gt; 335

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (29)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6297

Thr Ser Ser Ile Ser Tyr Leu Tyr Asn Lys Leu Pro Arg Arg Arg Ala  
 1 5 10 15

Asp Leu Phe Gly Glu Glu Leu Glu Arg Leu Leu Lys Xaa Lys Tyr Glu  
 20 25 30

Gly His Trp Tyr Pro Glu Lys Pro Leu Lys Gly Ser Gly Phe Arg Cys  
 35 40 45

Val His Ile Gly Glu Met Val Asp Pro Val Val Glu Leu Ala Ala Lys  
 50 55 60

Arg Ser Gly Leu Ala Val Glu Asp Val Arg Ala Asn Val Pro Glu Glu  
 65 70 75 80

Leu Ser Val Trp Ile Asp Pro Phe Glu Val Ser Tyr Gln Ile Gly Glu  
 85 90 95

Lys Gly Ala Val Lys Val Leu Tyr Leu Asp Asp Ser Glu Gly Cys Gly  
 100 105 110

Ala Pro Glu Leu Asp Lys Glu Ile Lys Ser Ser Phe Asn Pro Asp Ala  
 115 120 125

Gln Val Phe Val Pro Ile Gly Ser Gln Asp Ser Ser Leu Ser Asn Ser  
 130 135 140

Pro Ser Pro Ser Phe Gly Gln Ser Pro Ser Pro Thr Phe Ile Pro Arg  
 145 150 155 160

Ser Ala Gln Pro Ile Thr Phe Thr Thr Ala Ser Phe Ala Ala Thr Lys  
 165 170 175

Phe Gly Ser Thr Lys Met Lys Lys Gly Gly Gly Ala Ala Ser Gly Gly  
 180 185 190

Gly Val Ala Ser Ser Gly Ala Gly Gly Gln Gln Pro Pro Gln Gln Pro  
 195 200 205

Arg Met Ala Arg Ser Pro Thr Asn Ser Leu Leu Lys His Lys Ser Leu



## 5524

210                                      215                                      220  
 Ser Leu Ser Met His Ser Leu Asn Phe Ile Thr Ala Asn Pro Ala Pro  
 225                                      230                                      235                                      240  
 Gln Ser Gln Leu Ser Pro Asn Ala Lys Glu Phe Val Tyr Asn Gly Gly  
                                     245                                      250                                      255  
 Gly Ser Pro Ser Leu Phe Phe Asp Ala Ala Asp Gly Gln Gly Ser Gly  
                                     260                                      265                                      270  
 Thr Pro Gly Pro Phe Gly Gly Ser Gly Ala Gly Thr Cys Asn Ser Ser  
                                     275                                      280                                      285  
 Ser Phe Asp Met Ala Gln Val Phe Gly Gly Gly Ala Asn Ser Leu Phe  
                                     290                                      295                                      300  
 Leu Glu Lys Thr Pro Phe Val Glu Gly Leu Ser Tyr Asn Leu Asn Thr  
 305                                      310                                      315                                      320  
 Met Gln Tyr Pro Ser Gln Gln Phe Gln Pro Val Val Leu Ala Asn  
                                     325                                      330                                      335

&lt;210&gt; 6298

&lt;211&gt; 461

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6298

Gln Ser Leu Asn Asn Tyr Leu Val Ile Pro Thr Ser Ala Pro Trp Cys  
 1                                      5                                      10                                      15  
 Glu Gln Leu Leu Asn Met Asn Tyr Ser Leu His Leu Ala Phe Val Cys  
                                     20                                      25                                      30  
 Leu Ser Leu Phe Thr Glu Arg Met Cys Ile Gln Gly Ser Gln Phe Asn  
                                     35                                      40                                      45  
 Val Glu Val Gly Arg Ser Asp Lys Leu Ser Leu Pro Gly Phe Glu Asn  
                                     50                                      55                                      60  
 Leu Thr Ala Gly Tyr Asn Lys Phe Leu Arg Pro Asn Phe Gly Gly Glu  
 65                                      70                                      75                                      80  
 Pro Val Gln Ile Ala Leu Thr Leu Asp Ile Ala Ser Ile Ser Ser Ile  
                                     85                                      90                                      95  
 Ser Glu Ser Asn Met Asp Tyr Thr Ala Thr Ile Tyr Leu Arg Gln Arg  
                                     100                                      105                                      110

## 5525

Trp Met Asp Gln Arg Leu Val Phe Glu Gly Asn Lys Ser Phe Thr Leu  
 115 120 125  
 Asp Ala Arg Leu Val Glu Phe Leu Trp Val Pro Asp Thr Tyr Ile Val  
 130 135 140  
 Glu Ser Lys Lys Ser Phe Leu His Glu Val Thr Val Gly Asn Arg Leu  
 145 150 155 160  
 Ile Arg Leu Phe Ser Asn Gly Thr Val Leu Tyr Ala Leu Arg Ile Thr  
 165 170 175  
 Thr Thr Val Ala Cys Asn Met Asp Leu Ser Lys Tyr Pro Met Asp Thr  
 180 185 190  
 Gln Thr Cys Lys Leu Gln Leu Glu Ser Trp Gly Tyr Asp Gly Asn Asp  
 195 200 205  
 Val Glu Phe Thr Trp Leu Arg Gly Asn Asp Ser Val Arg Gly Leu Glu  
 210 215 220  
 His Leu Arg Leu Ala Gln Tyr Thr Ile Glu Arg Tyr Phe Thr Leu Val  
 225 230 235 240  
 Thr Arg Ser Gln Gln Glu Thr Gly Asn Tyr Thr Arg Leu Val Leu Gln  
 245 250 255  
 Phe Glu Leu Arg Arg Asn Val Leu Tyr Phe Ile Leu Glu Thr Tyr Val  
 260 265 270  
 Pro Ser Thr Phe Leu Val Val Leu Ser Trp Val Ser Phe Trp Ile Ser  
 275 280 285  
 Leu Asp Ser Val Pro Ala Arg Thr Cys Ile Gly Val Thr Thr Val Leu  
 290 295 300  
 Ser Met Thr Thr Leu Met Ile Gly Ser Arg Thr Ser Leu Pro Asn Thr  
 305 310 315 320  
 Asn Cys Phe Ile Lys Ala Ile Asp Val Tyr Leu Gly Ile Cys Phe Ser  
 325 330 335  
 Phe Val Phe Gly Ala Leu Leu Glu Tyr Ala Val Ala His Tyr Ser Ser  
 340 345 350  
 Leu Gln Gln Met Ala Ala Lys Asp Arg Gly Thr Thr Lys Glu Val Glu  
 355 360 365  
 Glu Val Ser Ile Thr Asn Ile Ile Asn Ser Ser Ile Ser Ser Phe Lys  
 370 375 380

## 5526

Arg Lys Ile Ser Phe Ala Ser Ile Glu Ile Ser Ser Asp Asn Val Asp  
 385 390 395 400

Tyr Ser Asp Leu Thr Met Lys Thr Ser Asp Lys Phe Lys Phe Val Phe  
 405 410 415

Arg Glu Lys Met Gly Arg Ile Val Asp Tyr Phe Thr Ile Gln Asn Pro  
 420 425 430

Ser Asn Val Asp His Tyr Ser Lys Leu Leu Phe Pro Leu Ile Phe Met  
 435 440 445

Leu Ala Asn Val Phe Tyr Trp Ala Tyr Tyr Met Tyr Phe  
 450 455 460

<210> 6299

<211> 403

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (244)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6299

Ala Gly Trp Ser Pro Glu Ser Leu Ala Tyr Trp Pro Xaa Arg Ser Asp  
 1 5 10 15

Thr Glu Val Pro Pro Leu Asp Leu Gly Trp Thr Asp Thr Gly Phe Tyr  
 20 25 30

Arg Gly Val Ser Xaa Val Thr Leu Phe Thr His Pro Pro Lys Asp Glu

5527

	35						40						45					
Lys	Ala	Pro	His	Leu	Lys	Gln	Xaa	Val	Arg	Gln	Met	Ile	Gln	Gln	Ala			
	50					55					60							
Gln	Lys	Val	Ile	Ala	Val	Val	Met	Asp	Leu	Phe	Thr	Asp	Gly	Asp	Ile			
65					70					75					80			
Phe	Gln	Asp	Ile	Val	Asp	Ala	Ala	Cys	Lys	Arg	Arg	Val	Pro	Val	Tyr			
				85					90					95				
Ile	Ile	Leu	Asp	Glu	Ala	Gly	Val	Lys	Tyr	Phe	Leu	Glu	Met	Cys	Gln			
			100					105					110					
Asp	Leu	Gln	Leu	Thr	Asp	Phe	Arg	Ile	Arg	Asn	Ile	Arg	Val	Arg	Ser			
		115					120					125						
Val	Thr	Gly	Val	Gly	Phe	Tyr	Met	Pro	Met	Gly	Arg	Ile	Lys	Gly	Thr			
	130					135					140							
Leu	Ser	Ser	Arg	Phe	Leu	Met	Val	Asp	Gly	Asp	Lys	Val	Ala	Thr	Gly			
145					150					155					160			
Ser	Tyr	Arg	Phe	Thr	Trp	Ser	Ser	Ser	His	Val	Asp	Arg	Asn	Leu	Leu			
			165						170					175				
Leu	Leu	Leu	Thr	Gly	Gln	Asn	Val	Glu	Pro	Phe	Asp	Thr	Glu	Phe	Arg			
			180					185					190					
Glu	Leu	Tyr	Ala	Ile	Ser	Glu	Glu	Val	Asp	Leu	Tyr	Arg	Gln	Leu	Ser			
		195					200					205						
Leu	Ala	Gly	Arg	Val	Gly	Leu	His	Tyr	Ser	Ser	Thr	Val	Ala	Arg	Lys			
	210					215					220							
Leu	Ile	Asn	Pro	Lys	Tyr	Ala	Leu	Val	Ser	Gly	Cys	Arg	His	Pro	Pro			
225					230					235					240			
Gly	Glu	Met	Xaa	Arg	Trp	Ala	Ala	Arg	Gln	Gln	Arg	Glu	Ala	Gly	Gly			
				245					250					255				
Asn	Pro	Glu	Gly	Gln	Glu	Glu	Gly	Ala	Ser	Gly	Gly	Glu	Ser	Ala	Trp			
			260					265					270					
Arg	Leu	Glu	Ser	Phe	Leu	Lys	Asp	Leu	Val	Thr	Val	Glu	Gln	Val	Leu			
		275					280					285						
Pro	Pro	Val	Glu	Pro	Ile	Pro	Leu	Gly	Glu	Leu	Ser	Gln	Lys	Asp	Gly			
	290					295					300							
Arg	Met	Val	Ser	His	Met	His	Arg	Asp	Leu	Lys	Pro	Lys	Ser	Arg	Glu			

5528

305									310									315									320
Ala	Pro	Ser	Arg	Asn	Gly	Met	Gly	Glu	Ala	Ala	Arg	Gly	Glu	Ala	Ala												
				325					330								335										
Pro	Ala	Gly	Arg	Phe	Ser	Ser	Arg	Leu	Phe	Ser	Arg	Arg	Ala	Lys	Arg												
				340					345								350										
Pro	Ala	Ala	Pro	Asn	Gly	Met	Ala	Ser	Ser	Val	Ser	Thr	Glu	Thr	Ser												
				355					360								365										
Glu	Val	Glu	Phe	Leu	Thr	Gly	Lys	Arg	Pro	Asn	Glu	Asn	Ser	Ser	Ala												
				370					375								380										
Asp	Ile	Ser	Gly	Lys	Thr	Ser	Pro	Ser	Ser	Ala	Lys	Pro	Ser	Asn	Cys												
385								390								395				400							
Val	Ile	Ser																									

<210> 6300

<211> 775

<212> PRT

<213> Homo sapiens

$\langle 220 \rangle$

&lt;221&gt; SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

**<222> (3)**

<223> Xaa equals any of the naturally occurring L-amino acids

**<220>**

&lt;221&gt; SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

&lt;221&gt; SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6300

Gln Xaa Xaa Tyr Xaa Xaa Pro Gly Arg Pro Thr Arg Pro Gly Ser Ser  
1 5 10 15

## 5529

Gly Ala Lys Met Ser Phe Val Ala Gly Val Ile Arg Arg Leu Asp Glu  
                   20                  25                  30

Thr Val Val Asn Arg Ile Ala Ala Gly Glu Val Ile Gln Arg Pro Ala  
                   35                  40                  45

Asn Ala Ile Lys Glu Met Ile Glu Asn Cys Leu Asp Ala Lys Ser Thr  
           50                  55                  60

Ser Ile Gln Val Ile Val Lys Glu Gly Gly Leu Lys Leu Ile Gln Ile  
   65                  70                  75                  80

Gln Asp Asn Gly Thr Gly Ile Arg Lys Glu Asp Leu Asp Ile Val Cys  
                   85                  90                  95

Glu Arg Phe Thr Thr Ser Lys Leu Gln Ser Phe Glu Asp Leu Ala Ser  
                   100                  105                  110

Ile Ser Thr Tyr Gly Phe Arg Gly Glu Ala Leu Ala Ser Ile Ser His  
           115                  120                  125

Val Ala His Val Thr Ile Thr Thr Lys Thr Ala Asp Gly Lys Cys Ala  
           130                  135                  140

Tyr Arg Ala Ser Tyr Ser Asp Gly Lys Leu Lys Ala Pro Pro Lys Pro  
   145                  150                  155                  160

Cys Ala Gly Asn Gln Gly Thr Gln Ile Thr Val Glu Asp Leu Phe Tyr  
                   165                  170                  175

Asn Ile Ala Thr Arg Arg Lys Ala Leu Lys Asn Pro Ser Glu Glu Tyr  
                   180                  185                  190

Gly Lys Ile Leu Glu Val Val Gly Arg Tyr Ser Val His Asn Ala Gly  
           195                  200                  205

Ile Ser Phe Ser Val Lys Lys Gln Gly Glu Thr Val Ala Asp Val Arg  
           210                  215                  220

Thr Leu Pro Asn Ala Ser Thr Val Asp Asn Ile Arg Ser Ile Phe Gly  
   225                  230                  235                  240

Asn Ala Val Ser Arg Glu Leu Ile Glu Ile Gly Cys Glu Asp Lys Thr  
                   245                  250                  255

Leu Ala Phe Lys Met Asn Gly Tyr Ile Ser Asn Ala Asn Tyr Ser Val  
           260                  265                  270

Lys Lys Cys Ile Phe Leu Leu Phe Ile Asn His Arg Leu Val Glu Ser  
           275                  280                  285

## 5530

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Thr Ser Leu Arg Lys Ala Ile Glu Thr Val Tyr Ala Ala Tyr Leu Pro
 290                               295                   300

Lys Asn Thr His Pro Phe Leu Tyr Leu Ser Leu Glu Ile Ser Pro Gln
 305                               310                   315                   320

Asn Val Asp Val Asn Val His Pro Thr Lys His Glu Val His Phe Leu
                               325                   330                   335

His Glu Glu Ser Ile Leu Glu Arg Val Gln Gln His Ile Glu Ser Lys
          340                               345                   350

Leu Leu Gly Ser Asn Ser Ser Arg Met Tyr Phe Thr Gln Thr Leu Leu
          355                               360                   365

Pro Gly Leu Ala Gly Pro Ser Gly Glu Met Val Lys Ser Thr Thr Ser
 370                               375                   380

Leu Thr Ser Ser Ser Thr Ser Gly Ser Ser Asp Lys Val Tyr Ala His
 385                               390                   395                   400

Gln Met Val Arg Thr Asp Ser Arg Glu Gln Lys Leu Asp Ala Phe Leu
          405                               410                   415

Gln Pro Leu Ser Lys Pro Leu Ser Ser Gln Pro Gln Ala Ile Val Thr
          420                               425                   430

Glu Asp Lys Thr Asp Ile Ser Ser Gly Arg Ala Arg Gln Gln Asp Glu
          435                               440                   445

Glu Met Leu Glu Leu Pro Ala Pro Ala Glu Val Ala Ala Lys Asn Gln
          450                               455                   460

Ser Leu Glu Gly Asp Thr Thr Lys Gly Thr Ser Glu Met Ser Glu Lys
 465                               470                   475                   480

Arg Gly Pro Thr Ser Ser Asn Pro Arg Lys Arg His Arg Glu Asp Ser
          485                               490                   495

Asp Val Glu Met Val Glu Asp Asp Ser Arg Lys Glu Met Thr Ala Ala
          500                               505                   510

Cys Thr Pro Arg Arg Arg Ile Ile Asn Leu Thr Ser Val Leu Ser Leu
          515                               520                   525

Gln Glu Glu Ile Asn Glu Gln Gly His Glu Val Leu Arg Glu Met Leu
          530                               535                   540

His Asn His Ser Phe Val Gly Cys Val Asn Pro Gln Trp Ala Leu Ala
 545                               550                   555                   560

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## 5531

Gln His Gln Thr Lys Leu Tyr Leu Leu Asn Thr Thr Lys Leu Ser Glu  
                                   565                                  570                                  575

Glu Leu Phe Tyr Gln Ile Leu Ile Tyr Asp Phe Ala Asn Phe Gly Val  
                                   580                                  585                                  590

Leu Arg Leu Ser Glu Pro Ala Pro Leu Phe Asp Leu Ala Met Leu Ala  
                                   595                                  600                                  605

Leu Asp Ser Pro Glu Ser Gly Trp Thr Glu Glu Asp Gly Pro Lys Glu  
                                   610                                  615                                  620

Gly Leu Ala Glu Tyr Ile Val Glu Phe Leu Lys Lys Lys Ala Glu Met  
 625                                  630                                  635                                  640

Leu Ala Asp Tyr Phe Ser Leu Glu Ile Asp Glu Glu Gly Asn Leu Ile  
                                   645                                  650                                  655

Gly Leu Pro Leu Leu Ile Asp Asn Tyr Val Pro Pro Leu Glu Gly Leu  
                                   660                                  665                                  670

Pro Ile Phe Ile Leu Arg Leu Ala Thr Glu Val Asn Trp Asp Glu Glu  
                                   675                                  680                                  685

Lys Glu Cys Phe Glu Ser Leu Ser Lys Glu Cys Ala Met Phe Tyr Ser  
                                   690                                  695                                  700

Ile Arg Lys Gln Tyr Ile Ser Glu Glu Ser Thr Leu Ser Gly Gln Gln  
 705                                  710                                  715                                  720

Ser Glu Val Pro Gly Ser Ile Pro Asn Ser Trp Lys Trp Thr Val Glu  
                                   725                                  730                                  735

His Ile Val Tyr Lys Ala Leu Arg Ser His Ile Leu Pro Pro Lys His  
                                   740                                  745                                  750

Phe Thr Glu Asp Gly Asn Ile Leu Gln Leu Ala Asn Leu Pro Asp Leu  
                                   755                                  760                                  765

Tyr Lys Val Phe Glu Arg Cys  
                                   770                                  775

&lt;210&gt; 6301

&lt;211&gt; 159

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE



## 5532

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (108)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (140)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (149)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6301

Ala	Gln	Leu	Val	Phe	Pro	Ser	Ser	Cys	Leu	Ala	Phe	Xaa	Ser	Pro	Leu
1				5					10					15	

Ser	Val	Phe	Lys	Arg	Phe	Lys	Glu	Thr	Thr	Arg	Pro	Phe	Ser	Asn	Glu
			20				25						30		

Cys	Leu	Gly	Thr	Thr	Arg	Pro	Val	Val	Pro	Ile	Asp	Ser	Ser	Asp	Phe
		35					40					45			

Ala	Leu	Asp	Ile	Arg	Met	Pro	Gly	Val	Thr	Pro	Lys	Gln	Ser	Asp	Thr
	50					55					60				

Tyr	Phe	Cys	Met	Ser	Met	Arg	Ile	Pro	Val	Asp	Glu	Glu	Ala	Phe	Val
65					70					75				80	

Ile	Asp	Phe	Lys	Pro	Arg	Ala	Ser	Met	Asp	Thr	Val	His	His	Met	Leu
			85					90						95	

Leu	Phe	Gly	Cys	Asn	Met	Pro	Ser	Ser	Thr	Gly	Xaa	Tyr	Trp	Phe	Cys
		100						105					110		

Asp	Glu	Gly	Thr	Cys	Thr	Asp	Lys	Ala	Asn	Asp	Ser	Val	Cys	Leu	Gly
	115						120					125			

Glu	Lys	Cys	Phe	Pro	Leu	Pro	Gly	Leu	Pro	Lys	Xaa	Cys	Trp	Asp	Ser
	130					135					140				

Glu	Leu	Gly	Gly	Xaa	Asp	Trp	Glu	Val	Asn	Thr	Trp	Tyr	Tyr	Arg	
145					150					155					

5533

&lt;210&gt; 6302

&lt;211&gt; 211

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (56)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (57)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (60)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6302

Asp	Ser	Tyr	Arg	Glu	Ser	Trp	Tyr	Ala	Cys	Arg	Tyr	Arg	Ser	Gly	Ile
1				5					10					15	

Pro	Gly	Ser	Thr	His	Ala	Ser	Gly	Lys	Gly	Phe	Tyr	Ser	Tyr	Gln	Ser
			20					25					30		

Leu	His	Glu	Trp	Phe	Arg	Asp	Thr	Asp	Ala	Glu	Phe	Val	Asp	Ile	Asp
	35						40					45			

Gly	Lys	Ser	His	Leu	Ile	Leu	Xaa	Xaa	Arg	Ser	Xaa	Val	Pro	Ile	Ile
	50					55					60				

Leu	Gln	Trp	Asn	Lys	Ser	Ser	Lys	Lys	Phe	Val	Pro	His	Gly	Asp	Ile
65					70					75					80

Pro	Asn	Met	Glu	Asp	Val	Leu	Ala	Val	Lys	Ser	Phe	Arg	Met	Gln	Asn
				85					90					95	

Thr	Leu	Tyr	Leu	Ser	Leu	Thr	Arg	Phe	Ile	Gly	Asp	Ser	Arg	Val	Met
			100					105					110		

Arg	Trp	Asn	Ser	Lys	Gln	Phe	Val	Glu	Ile	Gln	Ala	Leu	Pro	Ser	Arg
		115					120					125			

Gly	Ala	Met	Thr	Leu	Gln	Pro	Phe	Ser	Phe	Lys	Asp	Asn	His	Tyr	Leu
	130					135					140				

Ala	Leu	Gly	Ser	Asp	Tyr	Thr	Phe	Ser	Gln	Ile	Tyr	Gln	Trp	Asp	Lys
145					150					155					160

## 5534

Glu Lys Gln Leu Phe Lys Lys Phe Lys Glu Ile Tyr Val Gln Ala Pro  
                     165                    170                    175  
 Arg Ser Phe Thr Ala Val Ser Thr Asp Arg Arg Asp Phe Phe Phe Ala  
                     180                    185                    190  
 Ser Ser Phe Lys Gly Lys Thr Lys Ile Phe Glu His Ile Ile Val Asp  
                     195                    200                    205  
 Leu Ser Leu  
             210

&lt;210&gt; 6303

&lt;211&gt; 704

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (89)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (122)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6303

Arg His Pro Ala Ala His Pro Ala Gly Pro Gly Glu Ala Leu Ala Ala  
     1                    5                    10                    15  
 Val Leu Lys Glu Val Cys Asp Ala Trp Ser Leu Thr His Ser Glu Arg  
                     20                    25                    30  
 Tyr Ala Leu Gln Phe Ala Asp Gly His Arg Arg Tyr Ile Thr Glu Asn  
                     35                    40                    45  
 Asn Arg Ala Glu Ile Lys Asn Gly Ser Ile Leu Cys Leu Ser Thr Ala  
                     50                    55                    60  
 Pro Asp Leu Glu Ala Glu Gln Leu Leu Gly Gly Leu Gln Ser Asn Ser  
                     65                    70                    75                    80  
 Pro Glu Gly Arg Arg Glu Ala Leu Xaa Arg Leu Val Pro Leu Ala Ser  
                     85                    90                    95  
 Asp Met Ile Phe Ala Arg Glu Val Ile Ser Arg Asn Gly Leu Gln Ile  
                     100                    105                    110

## 5535

Leu Gly Thr Ile Ile Glu Asp Gly Asp Xaa Leu Gly Glu Val Leu Ala  
 115 120 125

Leu Ser Leu Arg Ala Phe Ser Glu Leu Met Glu His Gly Val Val Ser  
 130 135 140

Trp Glu Thr Leu Ser Ile Pro Phe Val Arg Lys Val Val Cys Tyr Val  
 145 150 155 160

Asn Met Asn Leu Met Asp Ala Ser Val Pro Pro Leu Ala Leu Gly Leu  
 165 170 175

Leu Glu Ser Val Thr Leu Ser Ser Pro Ala Leu Gly Gln Leu Val Lys  
 180 185 190

Ser Glu Val Pro Leu Asp Arg Leu Leu Val His Leu Gln Val Met Asn  
 195 200 205

Gln Gln Leu Gln Thr Lys Ala Met Ala Leu Leu Thr Ala Leu Leu Gln  
 210 215 220

Gly Ala Ser Pro Val Glu Arg Lys His Met Leu Asp Tyr Leu Trp Gln  
 225 230 235 240

Arg Asn Leu Arg Gln Phe Ile Tyr Lys Asn Ile Ile His Ser Ala Ala  
 245 250 255

Pro Met Gly Asp Glu Met Ala His His Leu Tyr Val Leu Gln Ala Leu  
 260 265 270

Met Leu Gly Leu Leu Glu Pro Arg Met Arg Thr Pro Leu Asp Pro Tyr  
 275 280 285

Ser Gln Glu Gln Arg Glu Gln Leu Gln Val Leu Arg Gln Ala Ala Phe  
 290 295 300

Glu Val Glu Gly Glu Ser Ser Gly Ala Gly Leu Ser Ala Asp Arg Arg  
 305 310 315 320

Arg Ser Leu Cys Ala Arg Glu Phe Arg Lys Leu Gly Phe Ser Asn Ser  
 325 330 335

Asn Pro Ala Gln Asp Leu Glu Arg Val Pro Pro Gly Leu Leu Ala Leu  
 340 345 350

Asp Asn Met Leu Tyr Phe Ser Arg Asn Ala Pro Ser Ala Tyr Ser Arg  
 355 360 365

Phe Val Leu Glu Asn Ser Ser Arg Glu Asp Lys His Glu Cys Pro Phe  
 370 375 380

## 5536

Ala Arg Gly Ser Ile Gln Leu Thr Val Leu Leu Cys Glu Leu Leu Arg  
 385 390 395 400  
 Val Gly Glu Pro Cys Ser Glu Thr Ala Gln Asp Phe Ser Pro Met Phe  
 405 410 415  
 Phe Gly Gln Asp Gln Ser Phe His Glu Leu Phe Cys Val Gly Ile Gln  
 420 425 430  
 Leu Leu Asn Lys Thr Trp Lys Glu Met Arg Ala Thr Gln Glu Asp Phe  
 435 440 445  
 Asp Lys Val Met Gln Val Val Arg Glu Gln Leu Ala Arg Thr Leu Ala  
 450 455 460  
 Leu Lys Pro Thr Ser Leu Glu Leu Phe Arg Thr Lys Val Asn Ala Leu  
 465 470 475 480  
 Thr Tyr Gly Glu Val Leu Arg Leu Arg Gln Thr Glu Arg Leu His Gln  
 485 490 495  
 Glu Gly Thr Leu Ala Pro Pro Ile Leu Glu Leu Arg Glu Lys Leu Lys  
 500 505 510  
 Pro Glu Leu Met Gly Leu Ile Arg Gln Gln Arg Leu Leu Arg Leu Cys  
 515 520 525  
 Glu Gly Thr Leu Phe Arg Lys Ile Ser Ser Arg Arg Arg Gln Asp Lys  
 530 535 540  
 Leu Trp Phe Cys Cys Leu Ser Pro Asn His Lys Leu Leu Gln Tyr Gly  
 545 550 555 560  
 Asp Met Glu Glu Gly Ala Ser Pro Pro Thr Leu Glu Ser Leu Pro Glu  
 565 570 575  
 Gln Leu Pro Val Ala Asp Met Arg Ala Leu Leu Thr Gly Lys Asp Cys  
 580 585 590  
 Pro His Val Arg Glu Lys Gly Ser Gly Lys Gln Asn Lys Asp Leu Tyr  
 595 600 605  
 Glu Leu Ala Phe Ser Ile Ser Tyr Asp Arg Gly Glu Glu Glu Ala Tyr  
 610 615 620  
 Leu Asn Phe Ile Ala Pro Ser Lys Arg Glu Phe Tyr Leu Trp Thr Asp  
 625 630 635 640  
 Gly Leu Ser Ala Leu Leu Gly Ser Pro Met Gly Ser Glu Gln Thr Arg  
 645 650 655

## 5537

Leu Asp Leu Glu Gln Leu Leu Thr Met Glu Thr Lys Leu Arg Leu Leu  
                   660                  665                  670

Glu Leu Glu Asn Val Pro Ile Pro Glu Arg Pro Pro Pro Val Pro Pro  
                   675                  680                  685

Pro Pro Thr Asn Phe Asn Phe Cys Tyr Asp Cys Ser Ile Ala Glu Pro  
                   690                  695                  700

&lt;210&gt; 6304

&lt;211&gt; 75

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6304

Leu Pro Leu Leu Gln Xaa Glu Met Cys Ile Arg Asp Ser Tyr Arg Arg  
   1                  5                  10                  15

Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser  
                   20                  25                  30

Ala His Ala Ser Ala Asp Ala Trp Ala Val Thr Glu Ile Ile Phe Pro  
                   35                  40                  45

Tyr Glu Gln Thr Leu Cys Val Arg Pro Val Ser His Met Ser Arg Ala  
                   50                  55                  60

Cys Val Gln Val Cys Phe Trp His Val Pro His  
   65                  70                  75

&lt;210&gt; 6305

&lt;211&gt; 238

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6305

Glu Ile Ser His Asn Leu Gly Val Cys Tyr Ile Tyr Leu Lys Gln Phe  
   1                  5                  10                  15

## 5538

Asn Lys Ala Gln Asp Gln Leu His Asn Ala Leu Asn Leu Asn Arg His  
                   20                  25                  30  
 Asp Leu Thr Tyr Ile Met Leu Gly Lys Ile His Leu Leu Glu Gly Asp  
                   35                  40                  45  
 Leu Asp Lys Ala Ile Glu Val Tyr Lys Lys Ala Val Glu Phe Ser Pro  
                   50                  55                  60  
 Glu Asn Thr Glu Leu Leu Thr Thr Leu Gly Leu Leu Tyr Leu Gln Leu  
                   65                  70                  75                  80  
 Gly Ile Tyr Gln Lys Ala Phe Glu His Leu Gly Asn Ala Leu Thr Tyr  
                   85                  90                  95  
 Asp Pro Thr Asn Tyr Lys Ala Ile Leu Ala Ala Gly Ser Met Met Gln  
                   100                  105                  110  
 Thr His Gly Asp Phe Asp Val Ala Leu Thr Lys Tyr Arg Val Val Ala  
                   115                  120                  125  
 Cys Ala Val Pro Glu Ser Pro Pro Leu Trp Asn Asn Ile Gly Met Cys  
                   130                  135                  140  
 Phe Phe Gly Lys Lys Lys Tyr Val Ala Ala Ile Ser Cys Leu Lys Arg  
                   145                  150                  155                  160  
 Ala Asn Tyr Leu Ala Pro Phe Asp Trp Lys Ile Leu Tyr Asn Leu Gly  
                   165                  170                  175  
 Leu Val His Leu Thr Met Gln Gln Tyr Ala Ser Ala Phe His Phe Leu  
                   180                  185                  190  
 Ser Ala Ala Ile Asn Phe Gln Pro Lys Met Gly Glu Leu Tyr Met Leu  
                   195                  200                  205  
 Leu Ala Val Ala Leu Thr Asn Leu Glu Asp Thr Glu Asn Ala Lys Arg  
                   210                  215                  220  
 Ala Tyr Ala Glu Ala Val His Leu Asp Lys Tyr Ala Leu Cys  
                   225                  230                  235

&lt;210&gt; 6306

&lt;211&gt; 345

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6306

Arg Glu Gln Lys Leu Glu Leu His Arg Gly Gly Gly Arg Ser Arg Thr

## 5539

1	5	10	15
Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Ser Asn Asp Ala Ala	20	25	30
Ser Met Glu Ser Leu Tyr Asp Leu Trp Glu Phe Tyr Leu Pro Tyr Leu	35	40	45
Tyr Ser Cys Ile Ser Leu Met Gly Cys Leu Leu Leu Leu Leu Cys Thr	50	55	60
Pro Val Gly Leu Ser Arg Met Phe Thr Val Met Gly His Leu Leu Val	65	70	75
Lys Pro Thr Ile Leu Glu Asp Leu Asp Glu Gln Ile Tyr Ile Ile Thr	85	90	95
Leu Glu Glu Glu Ala Leu Gln Arg Arg Leu Asn Gly Leu Ser Ser Ser	100	105	110
Val Glu Tyr Asn Ile Met Glu Leu Glu Gln Glu Leu Glu Asn Val Lys	115	120	125
Thr Leu Lys Thr Lys Leu Glu Arg Arg Lys Lys Ala Ser Ala Trp Glu	130	135	140
Arg Asn Leu Val Tyr Pro Ala Val Met Val Leu Leu Leu Ile Glu Thr	145	150	155
Ser Ile Ser Val Leu Leu Val Ala Cys Asn Ile Leu Cys Leu Leu Val	165	170	175
Asp Glu Thr Ala Met Pro Lys Gly Thr Arg Gly Pro Gly Ile Gly Asn	180	185	190
Ala Ser Leu Ser Thr Phe Gly Phe Val Gly Ala Ala Leu Glu Ile Ile	195	200	205
Leu Ile Phe Tyr Leu Met Val Ser Ser Val Val Gly Phe Tyr Ser Leu	210	215	220
Arg Phe Phe Gly Asn Phe Thr Pro Lys Lys Asp Asp Thr Thr Met Thr	225	230	235
Lys Ile Ile Gly Asn Cys Val Ser Ile Leu Val Leu Ser Ser Ala Leu	245	250	255
Pro Val Met Ser Arg Thr Leu Gly Ile Thr Arg Phe Asp Leu Leu Gly	260	265	270
Asp Phe Gly Arg Phe Asn Trp Leu Gly Asn Phe Tyr Ile Val Leu Ser			



## 5540

275	280	285
Tyr Asn Leu Leu Phe Ala Ile Val Thr Thr Leu Cys Leu Val Arg Lys		
290	295	300
Phe Thr Ser Ala Val Arg Glu Glu Leu Phe Lys Ala Leu Gly Leu His		
305	310	315
Lys Leu His Leu Pro Asn Thr Ser Arg Asp Ser Glu Thr Ala Lys Pro		
	325	330
Ser Val Asn Gly His Gln Lys Ala Leu		
340	345	

&lt;210&gt; 6307

&lt;211&gt; 404

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (346)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (401)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6307

Xaa Val Arg Val Gln Thr Arg Gly Ser Ala Asp Pro Ala Gln Leu Arg
1 5 10 15

Arg His Pro Gly Tyr Lys Arg Thr Ala Ser Ala Thr Leu Ser Asp Pro
20 25 30

Ala Ala Ala Ala Met Gln Pro Ser Ser Leu Leu Pro Leu Ala Leu Cys
35 40 45

Leu Leu Ala Ala Pro Ala Ser Ala Leu Val Arg Ile Pro Leu His Lys
50 55 60

Phe Thr Ser Ile Arg Arg Thr Met Ser Glu Val Gly Gly Ser Val Glu
65 70 75 80

## 5541

Asp Leu Ile Ala Lys Gly Pro Val Ser Lys Tyr Ser Gln Ala Val Pro  
                     85                    90                    95

Ala Val Thr Glu Gly Pro Ile Pro Glu Val Leu Lys Asn Tyr Met Asp  
                     100                    105                    110

Ala Gln Tyr Tyr Gly Glu Ile Gly Ile Gly Thr Pro Pro Gln Cys Phe  
                     115                    120                    125

Thr Val Val Phe Asp Thr Gly Ser Ser Asn Leu Trp Val Pro Ser Ile  
                     130                    135                    140

His Cys Lys Leu Leu Asp Ile Ala Cys Trp Ile His His Lys Tyr Asn  
 145                    150                    155                    160

Ser Asp Lys Ser Ser Thr Tyr Val Lys Asn Gly Thr Ser Phe Asp Ile  
                     165                    170                    175

His Tyr Gly Ser Gly Ser Leu Ser Gly Tyr Leu Ser Gln Asp Thr Val  
                     180                    185                    190

Ser Val Pro Cys Gln Ser Ala Ser Ser Ala Ser Ala Leu Gly Gly Val  
                     195                    200                    205

Lys Val Glu Arg Gln Val Phe Gly Glu Ala Thr Lys Gln Pro Gly Ile  
                     210                    215                    220

Thr Phe Ile Ala Ala Lys Phe Asp Gly Ile Leu Gly Met Ala Tyr Pro  
 225                    230                    235                    240

Arg Ile Ser Val Asn Asn Val Leu Pro Val Phe Asp Asn Leu Met Gln  
                     245                    250                    255

Gln Lys Leu Val Asp Gln Asn Ile Phe Ser Phe Tyr Leu Ser Arg Asp  
                     260                    265                    270

Pro Asp Ala Gln Pro Gly Gly Glu Leu Met Leu Gly Gly Thr Asp Ser  
                     275                    280                    285

Lys Tyr Tyr Lys Gly Ser Leu Ser Tyr Leu Asn Val Thr Arg Lys Ala  
                     290                    295                    300

Tyr Trp Gln Val His Leu Asp Gln Val Glu Val Ala Ser Gly Leu Thr  
 305                    310                    315                    320

Leu Cys Lys Glu Gly Cys Glu Ala Ile Val Asp Thr Gly Thr Ser Leu  
                     325                    330                    335

Met Val Gly Pro Val Asp Glu Val Arg Xaa Leu Gln Lys Ala Ile Gly  
                     340                    345                    350

## 5542

Ala Val Pro Leu Ile Gln Gly Glu Tyr Met Ile Pro Cys Glu Lys Val  
355 360 365

Ser Thr Leu Pro Ala Ile Thr Leu Lys Leu Gly Gly Lys Gly Tyr Lys  
370 375 380

Leu Ser Pro Glu Asp Tyr Thr Leu Lys Val Ser Gln Ala Gly Lys Thr  
385 390 395 400

Xaa Cys Leu Ser

<210> 6308

<211> 40

<212> PRT

<213> Homo sapiens

<400> 6308

Asn Pro Val Ser Thr Lys Ile Gln Lys Ile Ser Trp Ala Trp Trp Arg  
1 5 10 15

Thr Pro Val Val Pro Ala Thr Leu Glu Ala Glu Ala Gly Glu Ser Leu  
20 25 30

Lys Pro Arg Arg Arg Arg Leu Gln  
35 40

<210> 6309

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

5543

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (52)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (53)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6309

Thr	Ala	His	Ser	Gly	Cys	Cys	Ile	Glu	Lys	Arg	Met	Trp	Trp	Thr	Asp
1				5				10						15	

Ile	Glu	Ala	Trp	Lys	Pro	Asp	Arg	Xaa	Ile	Ala	Ile	Thr	Gln	Lys	Arg
			20					25					30		

Gly	Asp	Gly	Ser	Leu	Asp	Leu	Leu	Glu	Ala	Val	Xaa	Cys	Pro	Thr	Leu
		35					40					45			

Gln	Leu	Xaa	Xaa	Xaa	Glu	Lys	Gly	Pro	Glu	Arg	Leu	Ile	Leu	Ile	Thr
	50					55					60				

Asn	Gly	Pro	Met	Met
65				

&lt;210&gt; 6310

&lt;211&gt; 206

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (178)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6310

Arg	Val	Asp	Pro	Arg	Val	Arg	Pro	Arg	Val	Arg	Pro	Arg	Val	Arg	Gly
1				5				10						15	

Ala	Arg	Arg	Arg	Ser	Ser	Gly	Ser	Gly	Ser	Met	Ser	Ala	Gly	Gly	Ala
			20					25					30		

Ser	Val	Pro	Pro	Pro	Pro	Asn	Pro	Ala	Val	Ser	Phe	Pro	Pro	Pro	Arg
		35					40					45			

Val	Thr	Leu	Pro	Ala	Gly	Pro	Asp	Ile	Leu	Arg	Thr	Tyr	Ser	Gly	Ala
	50						55				60				

## 5544

Phe Val Cys Leu Glu Ile Leu Phe Gly Gly Leu Val Trp Ile Leu Val  
 65 70 75 80  
 Ala Ser Ser Asn Val Pro Leu Pro Leu Leu Gln Gly Trp Val Met Phe  
 85 90 95  
 Val Ser Val Thr Ala Phe Phe Phe Ser Leu Leu Phe Leu Gly Met Phe  
 100 105 110  
 Leu Ser Gly Met Val Ala Gln Ile Asp Ala Asn Trp Asn Phe Leu Asp  
 115 120 125  
 Phe Ala Tyr His Phe Thr Val Phe Val Phe Tyr Phe Gly Ala Phe Leu  
 130 135 140  
 Leu Glu Ala Ala Ala Thr Ser Leu His Asp Leu His Cys Asn Thr Thr  
 145 150 155 160  
 Ile Thr Gly Gln Pro Leu Leu Ser Asp Asn Gln Tyr Asn Ile Asn Val  
 165 170 175  
 Ala Xaa Ser Ile Phe Ala Phe Met Thr Thr Ala Cys Tyr Gly Cys Lys  
 180 185 190  
 Phe Gly Ser Gly Phe Thr Lys Met Ala Thr Arg Asn Thr Ser  
 195 200 205

&lt;210&gt; 6311

&lt;211&gt; 61

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (53)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (58)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6311

## 5545

Ala Phe Pro Trp Asp Leu Trp Pro Ser Trp Arg Gln Glu Pro Ser Ser  
 1 5 10 15  
 Pro Ser Thr Asp Trp Val Leu Leu Ala Leu Ala Leu Val Asn Leu Leu  
 20 25 30  
 Leu Ser Leu Pro Ala Pro Trp Ala Xaa Phe Leu Leu Cys His Ser Leu  
 35 40 45  
 Gly Pro Thr Val Xaa Arg Gly Leu Leu Xaa Thr Gly Thr  
 50 55 60

&lt;210&gt; 6312

&lt;211&gt; 169

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6312

Pro Ser Leu Ala Val Ala Lys Ile Ile Ile Ile Glu Phe Asn Pro Met  
 1 5 10 15  
 Tyr Pro Lys Xaa Asn Asp Ile Ala Leu Met Lys Leu Gln Phe Pro Leu  
 20 25 30  
 Thr Phe Ser Gly Thr Val Arg Pro Ile Cys Leu Pro Phe Phe Asp Glu  
 35 40 45  
 Glu Leu Thr Pro Ala Thr Pro Leu Trp Ile Ile Gly Trp Gly Phe Thr  
 50 55 60  
 Lys Gln Asn Gly Gly Lys Met Ser Asp Ile Leu Leu Gln Ala Ser Val  
 65 70 75 80  
 Gln Val Ile Asp Ser Thr Arg Cys Asn Ala Asp Asp Ala Tyr Gln Gly  
 85 90 95  
 Glu Val Thr Glu Lys Met Met Cys Ala Gly Ile Pro Glu Gly Gly Val  
 100 105 110  
 Asp Thr Cys Gln Gly Asp Ser Gly Gly Pro Leu Met Tyr Gln Ser Asp  
 115 120 125  
 Gln Trp His Val Val Gly Ile Val Ser Trp Gly Tyr Gly Cys Gly Gly  
 130 135 140

## 5546

Pro Ser Thr Pro Gly Val Tyr Thr Lys Val Ser Ala Tyr Leu Asn Trp  
 145 150 155 160

Ile Tyr Asn Val Trp Lys Ala Glu Leu  
 165

<210> 6313

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6313

Arg Phe Ile Leu Lys Ser Val His Ile Gln His Lys Glu Arg Lys Asn  
 1 5 10 15

Leu Thr Asn Leu Lys Ser Ala Val Ile Leu Ala His Val Asn Thr Ile  
 20 25 30

Leu Ile Ser Trp Phe Ile Tyr Phe Leu Met Phe Val Ser Ile Tyr Ile  
 35 40 45

Tyr Ile Tyr Ile Tyr Ile Tyr Ile Tyr Ile Tyr Ile Tyr Ile Tyr Ile  
 50 55 60

Tyr Ile Tyr Ile Tyr Ile Xaa Ile Pro Ser Ser Lys Trp Pro Val Ile  
 65 70 75 80

Ala Cys Lys His Phe Phe  
 85

<210> 6314

<211> 106

<212> PRT

<213> Homo sapiens

<400> 6314

Gly Gly Tyr Ser Val Asp Ser Pro Thr Leu Thr Arg Phe Phe Thr Phe  
 1 5 10 15

His Phe Ile Leu Pro Phe Ile Ile Ala Ala Leu Ala Ala Leu His Leu  
 20 25 30

## 5547

Leu Phe Leu His Glu Thr Gly Ser Asn Asn Pro Leu Gly Ile Thr Ser  
           35                          40                          45  
 His Ser Asp Lys Ile Thr Phe His Pro Tyr Tyr Thr Ile Lys Asp Ala  
           50                          55                          60  
 Leu Gly Leu Leu Leu Phe Leu Leu Ser Leu Met Thr Leu Thr Leu Phe  
           65                          70                          75                          80  
 Ser Pro Asp Leu Leu Gly Asp Pro Asp Asn Tyr Thr Leu Ala Asn Pro  
                           85                          90                          95  
 Leu Asn Thr Pro Pro His Ile Lys Pro Glu  
                           100                          105

&lt;210&gt; 6315

&lt;211&gt; 101

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6315

Asp Tyr Ala Arg Pro Lys Tyr Tyr Phe Gln Ile Glu Pro Ser Ser Trp  
           1                          5                          10                          15  
 Val Ala Val Tyr Asn Thr Gln Val Glu Phe Gly Lys Cys Ser Pro Ser  
                           20                          25                          30  
 Leu Pro Phe Phe Thr Val Asp Ala Ser Ala Ser Phe Leu Ser Leu His  
           35                          40                          45  
 Thr His Cys Pro Thr Ala Gly Phe Pro Phe Ser Phe Arg Ala Val Ala  
           50                          55                          60  
 Val Pro Phe Leu His Ser His Pro Ser Gln Trp Gln Pro Pro Leu Pro  
           65                          70                          75                          80  
 Ser Cys Ile Leu Asn Pro Thr Leu Ile Ile Cys Leu Asp Phe Ala Phe  
                           85                          90                          95  
 Leu Pro Ala Val Leu  
                           100

&lt;210&gt; 6316

&lt;211&gt; 132

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens



5548

&lt;400&gt; 6316

Gln Arg His Ala Gly Glu Thr Gly Ala Ala Thr Ala Arg Arg Glu Ser  
 1 5 10 15  
 Leu Pro Gln Ala Asn Asn Pro Glu Gln Leu Cys Lys Gln Arg Cys Ile  
 20 25 30  
 Asn Glu Ala Ser Trp Thr Met Lys Arg Val Leu Ser Cys Val Pro Glu  
 35 40 45  
 Pro Thr Val Val Met Ala Ala Arg Ala Leu Cys Met Leu Gly Leu Val  
 50 55 60  
 Leu Ala Leu Leu Ser Ser Ser Ser Ala Glu Glu Tyr Val Gly Leu Ser  
 65 70 75 80  
 Ala Asn Gln Cys Ala Val Pro Ala Lys Asp Arg Val Asp Cys Gly Tyr  
 85 90 95  
 Pro His Val Thr Pro Lys Glu Cys Asn Asn Arg Gly Cys Cys Phe Asp  
 100 105 110  
 Ser Arg Ile Pro Gly Val Pro Trp Cys Phe Lys Pro Leu Gln Glu Ala  
 115 120 125  
 Glu Cys Thr Phe  
 130

&lt;210&gt; 6317

&lt;211&gt; 105

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6317

Leu Xaa Arg Leu Gln Xaa Pro Val Arg Asn Ser Arg Val Asp Pro Arg  
 1 5 10 15  
 Val Gly Val Pro Glu Pro Thr Val Val Met Ala Ala Arg Ala Leu Cys

## 5549

20 25 30  
 Met Leu Gly Leu Val Leu Ala Leu Leu Ser Ser Ser Ser Ala Glu Glu  
 35 40 45  
 Tyr Val Gly Leu Ser Ala Asn Gln Cys Ala Val Pro Ala Lys Asp Arg  
 50 55 60  
 Val Asp Cys Gly Tyr Pro His Val Thr Pro Lys Glu Cys Asn Asn Arg  
 65 70 75 80  
 Gly Cys Cys Phe Asp Ser Arg Ile Pro Gly Val Pro Trp Cys Phe Lys  
 85 90 95  
 Pro Leu Gln Glu Ala Glu Cys Thr Phe  
 100 105

&lt;210&gt; 6318

&lt;211&gt; 69

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6318

Leu Leu Leu Leu Leu Cys Lys Gly Thr Tyr Ile Pro Gln Tyr Thr Pro  
 1 5 10 15  
 Val Pro Pro Thr Ala Val Ser Ile Glu Gly Val Val Ala Asp Thr Ser  
 20 25 30  
 Pro Gln Thr Val Ala Pro Ser Ser Gln Asp Thr Ser Gly Gln Gln Gln  
 35 40 45  
 Gln Ile Ala Val Asp Thr Ser Asn Glu His Ala Pro Ala Tyr Ser Tyr  
 50 55 60  
 Gln Gln Ser Lys Pro  
 65

&lt;210&gt; 6319

&lt;211&gt; 96

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6319

Thr Phe Lys Phe Ala Asn Gln Phe Leu Ala Arg Lys His Phe Cys Tyr  
 1 5 10 15

## 5550

Thr Asn Ile Leu Leu Ser Leu Pro Lys Ala Pro Pro Met His Ser Phe  
                   20                  25                  30  
 Asn Lys Ile Gln Ser Leu Tyr Phe Lys Val Ile Leu Val Met Lys Phe  
                   35                  40                  45  
 Tyr Met Gln Arg Glu Lys Val Thr Glu Thr Glu Asn Lys Ser Lys Gly  
                   50                  55                  60  
 Lys Glu Tyr Tyr Gly Ile Lys Leu Ser Lys Gln Phe Trp Trp Lys Val  
                   65                  70                  75                  80  
 Lys Pro Val Ser Ala Pro His Gln Gly Cys Gly Pro Pro Arg His Ala  
                                   85                  90                  95

&lt;210&gt; 6320

&lt;211&gt; 285

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (280)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6320

Gly Arg Ala Pro Gly Arg Arg Val Gly Leu Arg Cys Ala Arg Arg Thr  
   1                  5                  10                  15  
 Ser Glu Ala Ala Gly Ser Gly Ala Gly Pro Pro Gly Pro Leu Gln Gly  
                   20                  25                  30  
 Arg Ser Gly Ser Ser Trp Ala Pro Arg Pro Gly Arg Arg Thr Glu Glu  
                   35                  40                  45  
 Arg Arg Lys Gly Ala Gly Gly Thr Arg Pro Arg Pro Ala Ala Ala Met  
                   50                  55                  60  
 Asn Ser Asn Val Glu Asn Leu Pro Pro His Ile Ile Arg Leu Val Tyr  
                   65                  70                  75                  80  
 Lys Glu Val Thr Thr Leu Thr Ala Asp Pro Pro Asp Gly Ile Lys Val  
                   85                  90                  95  
 Phe Pro Asn Glu Glu Asp Leu Thr Asp Leu Gln Val Thr Ile Glu Gly  
                   100                  105                  110

## 5551

Pro Glu Gly Thr Pro Tyr Ala Gly Gly Leu Phe Arg Met Lys Leu Leu  
 115 120 125  
 Leu Gly Lys Asp Phe Pro Ala Ser Pro Pro Lys Gly Tyr Phe Leu Thr  
 130 135 140  
 Lys Ile Phe His Pro Asn Val Gly Ala Asn Gly Glu Ile Cys Val Asn  
 145 150 155 160  
 Val Leu Lys Arg Asp Trp Thr Ala Glu Leu Gly Ile Arg His Val Leu  
 165 170 175  
 Leu Thr Ile Lys Cys Leu Leu Ile His Pro Asn Pro Glu Ser Ala Leu  
 180 185 190  
 Asn Glu Glu Ala Gly Arg Leu Leu Leu Glu Asn Tyr Glu Glu Tyr Ala  
 195 200 205  
 Ala Arg Ala Arg Leu Leu Thr Glu Ile His Gly Gly Ala Gly Gly Pro  
 210 215 220  
 Ser Gly Arg Ala Glu Ala Gly Arg Ala Leu Ala Ser Gly Thr Glu Ala  
 225 230 235 240  
 Ser Ser Thr Asp Pro Gly Ala Pro Gly Gly Pro Gly Gly Ala Glu Gly  
 245 250 255  
 Pro Met Ala Lys Lys His Ala Gly Glu Arg Asp Lys Lys Leu Ala Ala  
 260 265 270  
 Lys Lys Lys Thr Asp Lys Lys Xaa Ala Leu Arg Arg Leu  
 275 280 285

&lt;210&gt; 6321

&lt;211&gt; 40

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6321

His Glu Arg Met Leu Asn Leu Thr Asp Arg Gln Val Lys Ile Trp Phe  
 1 5 10 15  
 Gln Asn Arg Arg Met Lys Glu Lys Lys Leu Asn Arg Asp Arg Leu Gln  
 20 25 30  
 Tyr Phe Thr Gly Asn Pro Leu Phe  
 35 40

## 5552

&lt;210&gt; 6322

&lt;211&gt; 118

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (39)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6322

Gly	Ala	Glu	Arg	Arg	Gln	Xaa	Val	Val	Lys	Lys	Ala	Asp	Met	Ile	Asn
1				5					10					15	

Xaa	Asn	Met	Thr	His	Gln	Val	Gln	Ala	Glu	Arg	Asp	Ala	Leu	Ala	Leu
			20					25					30		

Ser	Lys	Ser	Pro	Phe	Ile	Xaa	His	Leu	Tyr	Tyr	Ser	Leu	Gln	Ser	Ala
		35					40					45			

Asn	Asn	Val	Tyr	Leu	Val	Met	Glu	Tyr	Leu	Ile	Gly	Gly	Asp	Val	Lys
		50				55					60				

Ser	Leu	Leu	His	Ile	Tyr	Gly	Tyr	Phe	Asp	Glu	Glu	Met	Ala	Val	Lys
	65				70				75						80

Tyr	Ile	Ser	Glu	Val	Ala	Leu	Ala	Leu	Asp	Tyr	Leu	His	Arg	His	Gly
				85					90					95	

Ile	Ile	His	Arg	Asp	Leu	Lys	Pro	Asp	Asn	Met	Leu	Ile	Ser	Asn	Glu
			100					105					110		

Gly	His	Ile	Lys	Leu	Thr
					115

&lt;210&gt; 6323

&lt;211&gt; 405

5553

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (96)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6323

Met Glu Ala Glu Thr Pro Ser Thr Glu Val Pro Pro Asp Pro Glu Pro  
 1 5 10 15

Gly Val Pro Leu Thr Pro Pro Ser Gln His Gln Glu Ala Gly Ala Gly  
 20 25 30

Asp Leu Cys Ala Leu Cys Gly Glu His Leu Tyr Val Leu Glu Arg Leu  
 35 40 45

Cys Val Asn Gly His Phe Phe His Arg Ser Cys Phe Arg Cys His Thr  
 50 55 60

Cys Glu Ala Thr Leu Trp Pro Gly Gly Tyr Glu Gln His Pro Gly Asp  
 65 70 75 80

Gly His Phe Tyr Cys Leu Gln His Leu Pro Gln Thr Asp His Lys Xaa  
 85 90 95

Glu Gly Ser Asp Arg Gly Pro Glu Ser Pro Glu Leu Pro Thr Pro Ser  
 100 105 110

Glu Asn Ser Met Pro Pro Gly Leu Ser Thr Pro Thr Ala Ser Gln Glu  
 115 120 125

Gly Ala Gly Pro Val Pro Asp Pro Ser Gln Pro Thr Arg Arg Gln Ile  
 130 135 140

Arg Leu Ser Ser Pro Glu Arg Gln Arg Leu Ser Ser Leu Asn Leu Thr  
 145 150 155 160

Pro Asp Pro Glu Met Glu Pro Pro Pro Lys Pro Pro Arg Ser Cys Ser  
 165 170 175

Ala Leu Ala Arg His Ala Leu Glu Ser Ser Phe Val Gly Trp Gly Leu  
 180 185 190

Pro Val Gln Ser Pro Gln Ala Leu Val Ala Met Glu Lys Glu Glu Lys  
 195 200 205

Glu Ser Pro Phe Ser Ser Glu Glu Glu Glu Glu Asp Val Pro Leu Asp  
 210 215 220

## 5554

Ser Asp Val Glu Gln Ala Leu Gln Thr Phe Ala Lys Thr Ser Gly Thr  
 225 230 235 240  
 Met Asn Asn Tyr Pro Thr Trp Arg Arg Thr Leu Leu Arg Arg Ala Lys  
 245 250 255  
 Glu Glu Glu Met Lys Arg Phe Cys Lys Ala Gln Thr Ile Gln Arg Arg  
 260 265 270  
 Leu Asn Glu Ile Glu Ala Ala Leu Arg Glu Leu Glu Ala Glu Gly Val  
 275 280 285  
 Lys Leu Glu Leu Ala Leu Arg Arg Gln Ser Ser Ser Pro Glu Gln Gln  
 290 295 300  
 Lys Lys Leu Trp Val Gly Gln Leu Leu Gln Leu Val Asp Lys Lys Asn  
 305 310 315 320  
 Ser Leu Val Ala Glu Glu Ala Glu Leu Met Ile Thr Val Gln Glu Leu  
 325 330 335  
 Asn Leu Glu Glu Lys Gln Trp Gln Leu Asp Gln Glu Leu Arg Gly Tyr  
 340 345 350  
 Met Asn Arg Glu Glu Asn Leu Lys Thr Ala Ala Asp Arg Gln Ala Glu  
 355 360 365  
 Asp Gln Val Leu Arg Lys Leu Val Asp Leu Val Asn Gln Arg Asp Ala  
 370 375 380  
 Leu Ile Arg Phe Gln Glu Glu Arg Arg Leu Ser Glu Leu Ala Leu Gly  
 385 390 395 400  
 Thr Gly Ala Gln Gly  
 405

&lt;210&gt; 6324

&lt;211&gt; 114

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6324

Leu Ile Lys Trp Lys Ile Ser Lys Glu Cys Lys Ile Ile Trp Gly Glu  
 1 5 10 15

Ser Cys Lys Met Trp Ser Phe Phe Thr Thr Asn Ile Phe Ser Pro Ser  
 20 25 30

Asp Val Tyr Met Phe Tyr Asp Leu Lys Tyr Gln Thr Met Val Cys Asp

5555

35                      40                      45  
 Ile Met Gly Leu Pro Leu Ala Gln Lys Arg Leu Leu Leu Ser Ser Ala  
     50                      55                      60  
 Cys Leu Met Thr Ile Gly Trp Ser Leu Leu Ser Leu Asn Phe Tyr Phe  
     65                      70                      75                      80  
 Leu Ile Ile Leu Val Ala Ile Arg Leu Lys Arg Glu Cys Thr Trp Glu  
                     85                      90                      95  
 Arg Ile Leu Lys Thr Asp Gln Ser Val Lys Cys His Val Leu Glu Lys  
                     100                      105                      110  
 Ile Lys

&lt;210&gt; 6325

&lt;211&gt; 80

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6325

Asn Thr Ala Thr Tyr Pro Gly Asn Met Lys Ile Leu Phe Val Glu Pro  
     1                      5                      10                      15  
 Ala Ile Phe Leu Ser Ala Phe Ala Met Thr Leu Thr Gly Pro Leu Thr  
                     20                      25                      30  
 Thr Gln Tyr Val Tyr Arg Arg Ile Trp Glu Glu Thr Gly Asn Tyr Thr  
                     35                      40                      45  
 Phe Ser Ser Asp Ser Asn Ile Ser Glu Cys Glu Lys Asn Lys Ser Ser  
     50                      55                      60  
 Pro Ile Phe Ala Phe Gln Glu Val Arg Asn Tyr Asn Ile His Ser Ile  
     65                      70                      75                      80

&lt;210&gt; 6326

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6326



## 5556

Phe Met Ile Trp Asn Ser Ile His Pro Phe Ser Gly Ile Lys Thr Phe  
 1 5 10 15

Leu Asp Phe Phe Arg Ile Gly Ser Glu Leu Val Tyr Tyr Leu Ala Phe  
 20 25 30

Ser Phe

<210> 6327

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6327

Cys Arg Leu Val Lys Ala Ser Leu Asp Glu Lys Ser Ala Thr Gly Trp  
 1 5 10 15

Pro Pro Val Cys Phe Ala Met Arg Ile Asn Leu Leu Phe Val Cys Leu  
 20 25 30

Lys Thr Pro Ile Ser Glu Ser Ser Val Leu Met Phe Val Glu His Asn  
 35 40 45

Leu Ile Lys Asn Ile Lys Ile Phe Thr Leu Ala Phe Thr Leu Thr Val  
 50 55 60

Xaa Gly Gly Xaa  
 65

<210> 6328

<211> 25

<212> PRT

<213> Homo sapiens

<400> 6328

Gly Leu Leu Leu Val Pro Asn Ser Cys Arg Pro Gly Asp Pro Leu Val

## 5557

1                      5                      10                      15  
 Leu Glu Arg Pro Pro Arg Trp Ser  
                     20                      25  
  
 <210> 6329  
 <211> 106  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (79)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 6329  
 Lys Gly Val Pro Arg Ala Gln Gln Gly Ala Lys Ser Gly Asp Ile Ala  
   1                      5                      10                      15  
  
 Ser Glu His Pro Thr Cys Ala Thr His Val His Pro Pro Thr His Thr  
                     20                      25                      30  
  
 His Ala His Ser His Ala His Ser His Ala His Ser His Ala His Ser  
                     35                      40                      45  
  
 His Ala His Ser His Ala His Ser His Ala His Ser His Ala His Ser  
                     50                      55                      60  
  
 His Ala His Thr Ala Trp Thr Leu Phe Pro Leu Cys Pro Trp Xaa His  
   65                      70                      75                      80  
  
 Thr Pro Ser Lys Pro Leu Thr Phe Ile Ser Pro Cys Val Phe Ser Lys  
                     85                      90                      95  
  
 Lys Val Tyr Gln Ala Arg Pro Pro Gly Gly  
                     100                      105

<210> 6330  
 <211> 147  
 <212> PRT  
 <213> Homo sapiens

<400> 6330  
 Asn Phe Pro Leu Pro Gly Gly Glu Lys Gln Arg Val Ala Ile Ala Arg  
   1                      5                      10                      15  
  
 Ala Ile Leu Lys Asp Pro Pro Val Ile Leu Tyr Asp Glu Ala Thr Ser

## 5558

20 25 30  
 Ser Leu Asp Ser Ile Thr Glu Glu Thr Ile Leu Gly Ala Met Lys Asp  
 35 40 45  
 Val Val Lys His Arg Thr Ser Ile Phe Ile Ala His Arg Leu Ser Thr  
 50 55 60  
 Val Val Asp Ala Asp Glu Ile Ile Val Leu Asp Gln Gly Lys Val Ala  
 65 70 75 80  
 Glu Arg Gly Thr His His Gly Leu Leu Ala Asn Pro His Ser Ile Tyr  
 85 90 95  
 Ser Glu Met Trp His Thr Gln Ser Ser Arg Val Gln Asn His Asp Asn  
 100 105 110  
 Pro Lys Trp Glu Ala Lys Lys Glu Asn Ile Ser Lys Glu Glu Glu Arg  
 115 120 125  
 Lys Lys Leu Gln Glu Glu Ile Val Asn Ser Val Lys Gly Cys Gly Asn  
 130 135 140  
 Cys Ser Cys  
 145

&lt;210&gt; 6331

&lt;211&gt; 176

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (167)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6331

Cys Gln Gln Leu Met Asp Leu Thr Ala Asn Leu Asn Leu Leu Trp Ser  
 1 5 10 15

Ala Pro Phe Gln Ile Leu Met Ala Val Tyr Leu Leu Trp Gln Glu Leu  
 20 25 30

Gly Pro Ala Val Leu Ala Gly Val Ala Val Leu Val Phe Val Ile Pro  
 35 40 45

Ile Asn Ala Leu Ala Ala Thr Lys Ile Lys Lys Leu Lys Val Ser Leu  
 50 55 60

## 5559

Ala Thr Leu Cys Val Tyr Phe Leu Leu Asp Glu Gly Asn Ile Leu Thr  
65 70 75 80

Ala Thr Lys Val Phe Thr Ser Met Ser Leu Phe Asn Ile Leu Arg Ile  
85 90 95

Pro Leu Phe Glu Leu Pro Thr Val Ile Ser Ala Val Val Gln Thr Lys  
100 105 110

Ile Ser Leu Gly Arg Leu Glu Asp Phe Leu Asn Thr Glu Glu Leu Leu  
115 120 125

Pro Gln Ser Ile Glu Thr Asn Tyr Thr Gly Asp His Ala Ile Gly Phe  
130 135 140

Thr Asp Ala Ser Phe Ser Trp Asp Lys Thr Gly Met Pro Val Leu Lys  
145 150 155 160

Glu Ala Leu Trp Leu Met Xaa Leu Asn Lys Pro Gly Phe Lys Ile Ala  
165 170 175

&lt;210&gt; 6332

&lt;211&gt; 129

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6332

Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Ala  
1 5 10 15

Lys Cys Tyr His Glu Arg Arg Lys Leu Asp Phe Phe Val Leu Ile Met  
20 25 30

Ala Ser Thr Cys Thr Phe Pro Glu Trp Ser Leu Leu Arg Pro Phe Leu  
35 40 45

Val Pro Phe Gln Ser Cys Pro His His Pro Ala Pro Leu Ala Ser Val  
50 55 60

His Ser Gly Pro Gln Pro Arg Pro Gly Leu Leu Cys Ser Ala Pro Thr  
65 70 75 80

Ala His His Pro Ser Cys Phe Pro Glu Pro Asp Pro Val Pro Pro Thr  
85 90 95

Gly Asn Gln Gly Cys Ala Leu Pro Cys Pro Arg Ser Pro Gly Leu Pro

## 5560

100	105	110
Val Leu Ser Leu Leu Ile Ile Ile Asn Ser Gly Phe Gln Leu Gln Pro		
115	120	125

Arg

<210> 6333  
 <211> 93  
 <212> PRT  
 <213> Homo sapiens

<400> 6333  
 Asp Phe Gln Ile Asp Lys Cys Thr Gly Tyr Val Glu Val Gln Lys Ser  
 1 5 10 15  
 Ile Thr Val Leu Gln His Ile Tyr Leu Gly Asn Leu Lys His Val Leu  
 20 25 30  
 Leu Met Tyr Gln Ala Val Cys Cys Ser Gln Arg Asp Pro Ile Ser Ala  
 35 40 45  
 Leu Gly Ile Leu Gly Glu Asn Met Tyr Lys Glu Ile Val Leu Ala His  
 50 55 60  
 Ser Ser Lys Gly Ser Asp Gln Gly His Leu Ala Leu Arg Gly Asn Leu  
 65 70 75 80  
 Gly Lys Val Pro Trp Arg Met Arg Leu Leu Leu Lys Ser  
 85 90

<210> 6334  
 <211> 76  
 <212> PRT  
 <213> Homo sapiens

<400> 6334  
 Leu Val Arg Leu Gln Val Pro Val Arg Asn Ser Arg Val Asp Pro Arg  
 1 5 10 15  
 Val Arg Asn Arg Glu Arg Lys Gly Gln Arg Trp Lys Ile Leu Phe Tyr  
 20 25 30  
 Cys Phe Asp Phe Arg His Pro Glu Arg Val Thr Asn Phe Lys Thr Leu  
 35 40 45

## 5561

Asn Lys Val Ala Leu Cys Trp Gly Arg Asn Leu Ala Ile Leu Val Thr  
 50 55 60

Leu Lys Ser Arg Tyr Pro Phe Ser Leu Glu Ser Pro  
 65 70 75

<210> 6335

<211> 349

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (340)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6335

Arg Asn Val Gln Leu Leu Thr Ala Ala Glu Thr Trp Glu Pro Arg Gly  
 1 5 10 15

Pro Leu Ser Ser Gln Pro Pro Pro Pro Ser Ser Arg Ala Gly Pro Pro  
 20 25 30

Arg Pro Arg Leu Leu Leu Thr Pro Arg Pro Gly Ala Arg Phe Cys Gly  
 35 40 45

Ser Ile Ile Leu Cys His Tyr Glu Met Ser Ser Leu Gly Ala Ser Phe  
 50 55 60

Val Gln Ile Lys Phe Asp Asp Leu Gln Phe Phe Glu Asn Cys Gly Gly  
 65 70 75 80

Gly Ser Phe Gly Ser Val Tyr Arg Ala Lys Trp Ile Ser Gln Asp Lys  
 85 90 95

Glu Val Ala Val Lys Lys Leu Leu Lys Ile Glu Lys Glu Ala Glu Ile  
 100 105 110

Leu Ser Val Leu Ser His Arg Asn Ile Ile Gln Phe Tyr Gly Val Ile  
 115 120 125

Leu Glu Pro Pro Asn Tyr Gly Ile Val Thr Glu Tyr Ala Ser Leu Gly  
 130 135 140

Ser Leu Tyr Asp Tyr Ile Asn Ser Asn Arg Ser Glu Glu Met Asp Met  
 145 150 155 160

Asp His Ile Met Thr Trp Ala Thr Asp Val Ala Lys Gly Met His Tyr  
 165 170 175

## 5562

Leu His Met Glu Ala Pro Val Lys Val Ile His Arg Asp Leu Lys Ser  
 180 185 190  
 Arg Asn Val Val Ile Ala Ala Asp Gly Val Leu Lys Ile Cys Asp Phe  
 195 200 205  
 Gly Ala Ser Arg Phe His Asn His Thr Thr His Met Ser Leu Val Gly  
 210 215 220  
 Thr Phe Pro Trp Met Ala Pro Glu Val Ile Gln Ser Leu Pro Val Ser  
 225 230 235 240  
 Glu Thr Cys Asp Thr Tyr Ser Tyr Gly Val Val Leu Trp Glu Met Leu  
 245 250 255  
 Thr Arg Glu Val Pro Phe Lys Gly Leu Glu Gly Leu Gln Val Ala Trp  
 260 265 270  
 Leu Val Val Glu Lys Asn Glu Arg Leu Thr Ile Pro Ser Ser Cys Pro  
 275 280 285  
 Arg Ser Phe Ala Glu Leu Leu His Gln Cys Trp Glu Ala Asp Ala Lys  
 290 295 300  
 Lys Arg Pro Ser Phe Lys Gln Ile Ile Ser Ile Leu Glu Ser Met Ser  
 305 310 315 320  
 Asn Asp Thr Ser Leu Leu Thr Ser Val Thr His Ser Tyr Thr Thr Arg  
 325 330 335  
 Arg Ser Gly Xaa Ala Lys Leu Arg Gln Leu Leu Arg Gly  
 340 345

&lt;210&gt; 6336

&lt;211&gt; 65

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6336

His Phe Gly Arg Pro Arg Gln Ala Asp His Leu Arg Ser Gly Val Gln  
 1 5 10 15  
 Asn Gln Pro Gly Gln Asp Gly Glu Thr Pro Ser Leu Leu Lys Ile Gln  
 20 25 30  
 Lys Lys Ile Ser Arg Ala Trp Trp His Val Pro Val Ile Pro Ala Thr  
 35 40 45

## 5563

Trp Glu Thr Glu Ala Gly Glu Leu Leu Glu Pro Gly Arg Arg Arg Leu  
 50 55 60

Gln  
 65

<210> 6337

<211> 104

<212> PRT

<213> Homo sapiens

<400> 6337

Ser Arg Asp Trp Val Thr Asn Asn Thr Arg Thr Lys Leu Arg Asp His  
 1 5 10 15

Tyr Ser Ser Ile Ser Pro Ser Phe His Lys Thr Ala Val Lys Met Phe  
 20 25 30

Asp Ile Lys Ala Trp Ala Glu Tyr Val Val Glu Trp Ala Ala Lys Asp  
 35 40 45

Pro Tyr Gly Phe Leu Thr Thr Val Ile Leu Ala Leu Thr Pro Leu Phe  
 50 55 60

Leu Ala Ser Ala Val Leu Ser Trp Lys Leu Ala Lys Met Ile Glu Ala  
 65 70 75 80

Arg Glu Lys Glu Gln Lys Lys Lys Gln Lys Arg Gln Glu Asn Ile Ala  
 85 90 95

Lys Ala Lys Arg Leu Lys Lys Asp  
 100

<210> 6338

<211> 146

<212> PRT

<213> Homo sapiens

<400> 6338

Thr His Trp Phe Gln Arg Pro Leu Arg Met Cys Leu Pro Ser Gln Ile  
 1 5 10 15

Trp Ala Phe Pro Val Pro Lys His His Leu Gly Gly Ser Leu Trp Val  
 20 25 30

Leu Ile Ser Ser His Met Phe Thr Pro His Val Gly Leu Pro Asn Cys  
 35 40 45



5564

Pro	Pro	Gln	Gly	Lys	Pro	Phe	Leu	Pro	Thr	Ser	Arg	Lys	Leu	Leu	Val
50				55				60							
Pro	Trp	Pro	Ser	His	Thr	Ser	Asp	Leu	Val	Pro	Leu	Pro	Gly	Pro	Val
65				70				75				80			
Gly	Phe	Asn	Asn	Leu	Val	Ser	Ser	Leu	Pro	Arg	Asn	Pro	Leu	Cys	Leu
85				90				95							
Glu	Cys	Ser	Pro	Pro	Ser	Gln	Pro	Leu	Ser	His	Thr	Ile	Phe	Ser	Phe
100				105				110							
Leu	Ser	Ser	Thr	Lys	Arg	Trp	Asp	Lys	Pro	Val	Cys	Thr	Gln	Cys	Leu
115				120				125							
Trp	Asp	Asn	Arg	Arg	Arg	Asn	Leu	Glu	Phe	Gly	Trp	Val	Ile	Lys	Leu
130				135				140							
Trp	Asn														
145															

<210> 6339

<211> 72

<212> PRT

<213> Homo sapiens

$\langle 220 \rangle$

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

**<220>**

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6339

Ser Ile Ile Pro Phe Lys Cys Tyr Phe Gln Phe Trp Gly Ile Phe Phe  
1 5 10 15

Phe Trp Ser Phe Cys Cys Xaa Cys Ser Phe Phe Thr Ile Pro Lys Met  
20 25 30

## 5565

Leu Gln Gln Ile Phe Phe Tyr Arg Leu Asn Val Ala Tyr Pro Lys Tyr  
                   35                                  40                                  45

Leu Gly Pro Glu Val Leu Gly Ile Ser Asp Phe Gln Ile Arg Asp Xaa  
           50                                  55                                  60

Xaa Pro Val Tyr Thr Ser Leu His  
       65                                  70

<210> 6340

<211> 385

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (176)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (296)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6340

His Leu Asn Val Asp Arg Lys Arg Pro Cys Ser Ile Glu Asp Arg Arg  
       1                                  5                                  10                                  15

Asn Trp Ser Leu Ile Gly Arg Pro Gly Ala Pro Ala Ser Gly Leu Asn  
                   20                                  25                                  30

Arg Ser Ser Gly Leu Trp Leu Gly Pro Asp Arg Cys Arg Pro Arg Ser  
           35                                  40                                  45

Arg Cys Ser Cys Arg Val Met Glu Asn Pro Ser Pro Ala Ala Ala Leu  
       50                                  55                                  60

Gly Lys Ala Leu Cys Ala Leu Leu Leu Ala Thr Leu Gly Ala Ala Gly  
       65                                  70                                  75                                  80

Gln Pro Leu Gly Gly Glu Ser Ile Cys Ser Ala Arg Ala Pro Ala Lys  
                   85                                  90                                  95

Tyr Ser Ile Thr Phe Thr Gly Lys Trp Ser Gln Thr Ala Phe Pro Lys  
                   100                                  105                                  110

Gln Tyr Pro Leu Phe Arg Pro Pro Ala Gln Trp Ser Ser Leu Leu Gly  
       115                                  120                                  125

## 5566

Ala	Ala	His	Ser	Ser	Asp	Tyr	Ser	Met	Trp	Arg	Lys	Asn	Gln	Tyr	Val	130	135	140
Ser	Asn	Gly	Leu	Arg	Asp	Phe	Ala	Glu	Arg	Gly	Glu	Ala	Trp	Ala	Leu	145	150	155
Met	Lys	Glu	Ile	Glu	Ala	Ala	Gly	Glu	Ala	Leu	Gln	Ser	Val	His	Xaa	165	170	175
Val	Phe	Ser	Ala	Pro	Ala	Val	Pro	Ser	Gly	Thr	Gly	Gln	Thr	Ser	Ala	180	185	190
Glu	Leu	Glu	Val	Gln	Arg	Arg	His	Ser	Leu	Val	Ser	Phe	Val	Val	Arg	195	200	205
Ile	Val	Pro	Ser	Pro	Asp	Trp	Phe	Val	Gly	Val	Asp	Ser	Leu	Asp	Leu	210	215	220
Cys	Asp	Gly	Asp	Arg	Trp	Arg	Glu	Gln	Ala	Ala	Leu	Asp	Leu	Tyr	Pro	225	230	235
Tyr	Asp	Ala	Gly	Thr	Asp	Ser	Gly	Phe	Thr	Phe	Ser	Ser	Pro	Asn	Phe	245	250	255
Ala	Thr	Ile	Pro	Gln	Asp	Thr	Val	Thr	Glu	Ile	Thr	Ser	Ser	Ser	Pro	260	265	270
Ser	His	Pro	Ala	Asn	Ser	Phe	Tyr	Tyr	Pro	Arg	Leu	Lys	Ala	Leu	Pro	275	280	285
Pro	Ile	Ala	Arg	Val	Thr	Leu	Xaa	Arg	Leu	Arg	Gln	Ser	Pro	Arg	Ala	290	295	300
Phe	Ile	Pro	Pro	Ala	Pro	Val	Leu	Pro	Ser	Arg	Asp	Asn	Glu	Ile	Val	305	310	315
Asp	Ser	Ala	Ser	Val	Pro	Glu	Thr	Pro	Leu	Asp	Cys	Glu	Val	Ser	Leu	325	330	335
Trp	Ser	Ser	Trp	Gly	Leu	Cys	Gly	Gly	His	Cys	Gly	Arg	Leu	Gly	Thr	340	345	350
Lys	Ser	Arg	Thr	Arg	Tyr	Val	Arg	Val	Gln	Pro	Ala	Asn	Asn	Gly	Ser	355	360	365
Pro	Cys	Pro	Glu	Leu	Glu	Glu	Glu	Ala	Glu	Cys	Val	Pro	Asp	Asn	Cys	370	375	380
Val																385		

5567

&lt;210&gt; 6341

&lt;211&gt; 124

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6341

Arg	Pro	Ala	Cys	Pro	Gly	Thr	Gly	Pro	Glu	Phe	Pro	Gly	Arg	Pro	Thr
1				5				10					15		

Arg	Pro	Pro	Thr	Arg	Pro	Pro	Thr	Arg	Pro	Pro	Thr	Arg	Pro	Leu	Cys
			20				25					30			

Arg	Lys	Met	Gly	Val	Pro	Tyr	Cys	Ile	Ile	Lys	Gly	Lys	Ala	Arg	Leu
		35					40					45			

Gly	Arg	Leu	Val	His	Arg	Lys	Thr	Cys	Thr	Thr	Val	Ala	Phe	Thr	Gln
		50				55					60				

Val	Asn	Ser	Glu	Asp	Lys	Gly	Ala	Leu	Ala	Lys	Leu	Val	Glu	Ala	Ile
	65					70				75					80

Arg	Thr	Asn	Tyr	Asn	Asp	Arg	Tyr	Asp	Glu	Ile	Arg	Arg	His	Trp	Gly
				85					90					95	

Gly	Asn	Val	Leu	Gly	Pro	Lys	Ser	Val	Ala	Arg	Ile	Ala	Lys	Leu	Glu
		100					105						110		

Lys	Ala	Lys	Ala	Lys	Glu	Leu	Ala	Thr	Lys	Leu	Gly
		115					120				

&lt;210&gt; 6342

&lt;211&gt; 110

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (58)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6342

Ala	Trp	Lys	Arg	Arg	Arg	Glu	Val	Lys	Asp	Gln	Ser	Leu	Ile	Gly	Thr
1				5					10					15	

Gly	Ser	His	Ser	Gly	Ser	Ser	Leu	Gln	Ser	Asp	Pro	His	Phe	Gly	Cys
			20					25					30		

## 5568

Ser Leu Gly Pro Ser Ser Gly Pro Arg Ser Ile Arg Leu His Pro Pro  
 35 40 45

Ser Leu Phe Arg Ile Leu Ser Cys Ala Xaa Pro Thr Pro Gly Ser Arg  
 50 55 60

Ser Gln Thr Ser Ser His Gly Trp Ser Leu Leu Pro Ser Ala Val Arg  
 65 70 75 80

Pro Pro Gly Thr Gln Ala Pro Gly Phe Gly Arg Ser Gly Val Ser Ser  
 85 90 95

Arg Trp Val Ser Ala Pro Thr Gly Thr Cys Thr Ser Cys Gln  
 100 105 110

<210> 6343

<211> 226

<212> PRT

<213> Homo sapiens

<400> 6343

Thr Glu Gly Tyr Gly Cys Gln Lys Thr Thr Glu Gly Tyr Gly Cys Glu  
 1 5 10 15

Lys Thr Thr Glu Gly Tyr Gly Cys Glu Lys Thr Thr Glu Gly Gly Ser  
 20 25 30

Ser Ser Phe Ala Pro Arg Val His Gly Ser Ser Phe Ser Phe Pro Leu  
 35 40 45

Gly Arg Glu Glu Ala Met Ala Ala Met Ala Ser Leu Gly Ala Leu Ala  
 50 55 60

Leu Leu Leu Leu Ser Ser Leu Ser Arg Cys Ser Ala Glu Ala Cys Leu  
 65 70 75 80

Glu Pro Gln Ile Thr Pro Ser Tyr Tyr Thr Thr Ser Asp Ala Val Ile  
 85 90 95

Ser Thr Glu Thr Val Phe Ile Val Glu Ile Ser Leu Thr Cys Lys Asn  
 100 105 110

Arg Val Gln Asn Met Ala Leu Tyr Ala Asp Val Gly Gly Lys Gln Phe  
 115 120 125

Pro Val Thr Arg Gly Gln Asp Val Gly Arg Tyr Gln Val Ser Trp Ser  
 130 135 140

Leu Asp His Lys Ser Ala His Ala Gly Thr Tyr Glu Val Arg Phe Phe

## 5569

145                      150                      155                      160  
 Asp Glu Glu Ser Tyr Ser Leu Leu Arg Lys Ala Gln Arg Asn Asn Glu  
                                  165                      170                      175  
 Asp Ile Ser Ile Ile Pro Pro Leu Phe Thr Val Ser Val Asp His Arg  
                                  180                      185                      190  
 Gly Thr Trp Asn Gly Pro Trp Val Ser Thr Glu Val Leu Ala Ala Ala  
                                  195                      200                      205  
 Ile Gly Leu Val Ile Tyr Tyr Leu Ala Phe Ser Ala Lys Ser His Ile  
                                  210                      215                      220  
 Gln Ala  
 225

&lt;210&gt; 6344

&lt;211&gt; 235

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (185)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6344

Ser Pro Arg Pro Leu Arg Phe Cys Gly Gly Ala Arg Ala Arg Arg Pro  
   1                                 5                                 10                                 15  
 Leu Ser Ala Val Ala Arg Pro Ala Arg Ser Ser Asp Pro Leu Arg Ser  
                                  20                                 25                                 30  
 Ala Pro Leu Gly Pro Ala Pro Pro Val Asn Met Ile Arg Cys Gly Leu  
                                  35                                 40                                 45  
 Ala Cys Glu Arg Cys Arg Trp Ile Leu Pro Leu Leu Leu Leu Ser Ala  
                                  50                                 55                                 60  
 Ile Ala Phe Asp Ile Ile Ala Leu Ala Gly Arg Gly Trp Leu Gln Ser  
   65                                 70                                 75                                 80  
 Ser Asp His Gly Gln Thr Ser Ser Leu Trp Trp Lys Cys Ser Gln Glu  
                                  85                                 90                                 95  
 Gly Gly Gly Ser Gly Ser Tyr Glu Glu Gly Cys Gln Ser Leu Met Glu  
                                  100                                 105                                 110

## 5570

Tyr Ala Trp Gly Arg Ala Ala Ala Ala Met Leu Phe Cys Gly Phe Ile  
 115 120 125  
 Ile Leu Val Ile Cys Phe Ile Leu Ser Phe Phe Ala Leu Cys Gly Pro  
 130 135 140  
 Gln Met Leu Val Phe Leu Arg Val Ile Gly Gly Leu Leu Ala Leu Ala  
 145 150 155 160  
 Ala Val Phe Gln Ile Ile Ser Leu Val Ile Tyr Pro Val Lys Tyr Thr  
 165 170 175  
 Gln Thr Phe Thr Leu His Ala Asn Xaa Ala Val Thr Tyr Ile Tyr Asn  
 180 185 190  
 Trp Ala Tyr Gly Phe Gly Trp Ala Ala Thr Ile Ile Leu Ile Gly Cys  
 195 200 205  
 Ala Phe Phe Phe Cys Cys Leu Pro Asn Tyr Glu Asp Asp Leu Leu Gly  
 210 215 220  
 Asn Ala Lys Pro Arg Tyr Phe Tyr Thr Ser Ala  
 225 230 235

&lt;210&gt; 6345

&lt;211&gt; 88

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (88)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6345

Gly Asn Leu His Gly Ile Leu Arg Asp Phe Tyr Ser Pro Leu Val Pro  
 1 5 10 15  
 Asp Ser Met Lys Phe Glu Ile Gly Glu Ala Leu Tyr Leu Gly Ile Ile  
 20 25 30  
 Ser Ser Leu Phe Ser Leu Ile Ala Gly Ile Ile Leu Cys Phe Ser Cys  
 35 40 45  
 Ser Ser Gln Arg Asn Arg Ser Asn Tyr Tyr Asp Ala Tyr Gln Ala Gln  
 50 55 60  
 Pro Leu Ala Thr Arg Ser Ser Pro Arg Pro Gly Gln Pro Pro Lys Val  
 65 70 75 80

5571

Lys Ser Glu Phe Asn Ser Tyr Xaa  
85

&lt;210&gt; 6346

&lt;211&gt; 105

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6346

Gly Ser Val Ala Gln Ser Arg Pro Ala Tyr Leu Ser Lys Asn Ser Lys  
1 5 10 15

Ser Leu Ser Gln Pro Thr Gly Leu Asn Leu His Trp Lys Pro Thr Cys  
20 25 30

Trp His Pro Arg Ser Pro Thr Leu Leu Ala Trp Val Gly Glu Ala Lys  
35 40 45

Asp His Pro Lys Phe Thr His Leu Ser Ser Ala Ala Ser His Trp Ala  
50 55 60

Ser Ala Ala Pro Gln His Gln Phe Thr Gly His Pro Ser Leu Leu Ala  
65 70 75 80

Leu Ser Pro Asn Leu Leu Ser Ile Pro Arg Ser Asn Leu Pro Leu Arg  
85 90 95

Ser Ala Arg Asn Ser Phe Arg Pro His  
100 105

&lt;210&gt; 6347

&lt;211&gt; 105

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;



5572

&lt;221&gt; SITE

&lt;222&gt; (63)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6347

Arg Cys Cys Leu Pro Glu Asp Gly Lys Ala Asp Ile Val Arg Ala Ala  
 1 5 10 15

Gln Asp Phe Cys Gln Xaa Val Ala Gln Lys Gln Xaa Arg Pro Thr Asp  
 20 25 30

Leu Asp Val Asp Thr Leu Ala Ser Leu Leu Ser Ser Asn Gly Cys Pro  
 35 40 45

Asp Pro Asp Leu Val Leu Lys Phe Gly Pro Val Asp Ser Thr Xaa Gly  
 50 55 60

Phe Leu Pro Trp His Ile Arg Leu Thr Glu Ile Val Ser Leu Pro Ser  
 65 70 75 80

His Leu Asn Ile Ser Tyr Glu Asp Phe Phe Ser Ala Leu Arg Gln Tyr  
 85 90 95

Ala Ala Cys Glu Gln Arg Leu Gly Lys  
 100 105

&lt;210&gt; 6348

&lt;211&gt; 81

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6348

Tyr Phe Asp Ile Ser Lys His Leu His Gly Asn His Tyr Ile Asp Pro  
 1 5 10 15

Thr Cys Gly Phe Ser Ser Tyr Val His Leu Thr Arg Ile Tyr Tyr Phe  
 20 25 30

Arg Tyr Asn Leu Gln Met Ser His Leu Ile Ile Phe Tyr Asn Ile Pro  
 35 40 45

Tyr Phe Ile Lys Val Leu Leu Glu Lys Tyr Leu Pro Gln Arg Ser Phe  
 50 55 60

Cys His Cys Val Arg Cys Val Phe Glu Pro Thr Met Thr Glu Ser Lys  
 65 70 75 80

Phe

5573

&lt;210&gt; 6349

&lt;211&gt; 100

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6349

Leu Lys Ile Asn Pro Ser Gly Lys Lys Lys Lys Lys Lys Asn Ser Arg  
 1 5 10 15

Gly Gly Pro Val Pro Asn Ser Pro Tyr Ser Glu Ser Tyr Tyr Asn Ser  
 20 25 30

Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr  
 35 40 45

Gln Leu Asn Arg Leu Ala Ala His Pro Pro Phe Ala Ser Trp Arg Asn  
 50 55 60

Ser Glu Glu Ala Arg Thr Asp Arg Pro Ser Gln Gln Leu Arg Ser Leu  
 65 70 75 80

Asn Gly Glu Trp Gln Ile Val Ser Val Asn Ile Leu Leu Lys Phe Ala  
 85 90 95

Leu Asn Phe Cys  
 100

&lt;210&gt; 6350

&lt;211&gt; 231

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5574

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (102)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (202)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (203)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (230)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6350

Arg	Asp	Xaa	Trp	Xaa	Ala	Ile	Pro	Asp	Thr	Ile	Asp	Xaa	Thr	Pro	Ala
1				5					10					15	

Xaa	Thr	Gly	Pro	Glu	Phe	Pro	Gly	Arg	Pro	Thr	Arg	Pro	Pro	Ala	Pro
			20					25						30	

Pro	Ala	Met	Val	Val	Ser	Gly	Ala	Pro	Pro	Ala	Leu	Gly	Gly	Gly	Cys
		35					40					45			

Leu	Gly	Thr	Phe	Thr	Ser	Leu	Leu	Leu	Leu	Ala	Ser	Thr	Ala	Ile	Leu
	50					55					60				

Asn	Ala	Ala	Arg	Ile	Pro	Val	Pro	Pro	Ala	Cys	Gly	Lys	Pro	Gln	Gln
65					70					75					80

Leu	Asn	Arg	Val	Val	Gly	Gly	Glu	Asp	Ser	Thr	Asp	Ser	Glu	Trp	Pro
			85						90					95	

Trp	Ile	Val	Ser	Ile	Xaa	Lys	Asn	Gly	Thr	His	His	Cys	Ala	Gly	Ser
		100						105						110	

Leu	Leu	Thr	Ser	Arg	Trp	Val	Ile	Thr	Ala	Ala	His	Cys	Phe	Lys	Asp
		115						120						125	

## 5575

Asn Leu Asn Lys Pro Tyr Leu Phe Ser Val Leu Leu Gly Ala Trp Gln  
 130 135 140  
 Leu Gly Asn Pro Gly Ser Arg Ser Gln Lys Val Gly Val Ala Trp Val  
 145 150 155 160  
 Glu Pro His Pro Val Tyr Ser Trp Lys Glu Gly Ala Cys Ala Asp Ile  
 165 170 175  
 Ala Leu Val Arg Leu Glu Arg Ser Ile Gln Phe Ser Glu Arg Val Leu  
 180 185 190  
 Pro Ile Cys Leu Pro Asp Ala Ser Ile Xaa Xaa Pro Pro Asn Thr His  
 195 200 205  
 Cys Trp Ile Ser Gly Trp Gly Ser Ile Gln Asp Gly Val Pro Leu Pro  
 210 215 220  
 Thr Leu Arg Pro Cys Xaa Ser  
 225 230

&lt;210&gt; 6351

&lt;211&gt; 240

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6351

Gly Phe Pro Gly Thr Gly Ser Gly Gln Gly Ile Arg Pro Thr His Pro  
 1 5 10 15  
 Arg Gly Lys Pro Gly Pro Ser Gly Ala Asp Arg Gly Pro His Gly Pro  
 20 25 30  
 Arg Gly Gly Arg Arg Arg Leu Gly Val Ala Gly Arg Ala Ser Arg Val  
 35 40 45  
 Asp Arg Ala His Ala Ala Ala Ala His Thr Gly Leu Gly Glu Glu Phe  
 50 55 60  
 His Asp Val Glu Asp Ala Glu Thr Tyr Lys Lys Met Leu Ala Arg Asp  
 65 70 75 80  
 Glu Arg Arg Phe Arg Val Ala Asp Gln Asp Gly Asp Ser Met Ala Thr  
 85 90 95  
 Arg Glu Glu Leu Thr Ala Phe Leu His Pro Glu Glu Phe Pro His Met  
 100 105 110  
 Arg Asp Ile Val Ile Ala Glu Thr Leu Glu Asp Leu Asp Arg Asn Lys

## 5576

115	120	125
Asp Gly Tyr Val Gln Val Glu Glu Tyr Ile Ala Asp Leu Tyr Ser Ala		
130	135	140
Glu Pro Gly Glu Glu Glu Pro Ala Trp Val Gln Thr Glu Arg Gln Gln		
145	150	155
Phe Arg Asp Phe Arg Asp Leu Asn Lys Asp Gly His Leu Asp Gly Ser		
165	170	175
Glu Val Gly His Trp Val Leu Pro Pro Ala Gln Asp Gln Pro Leu Val		
180	185	190
Glu Ala Asn His Leu Leu His Glu Ser Asp Thr Asp Lys Asp Gly Arg		
195	200	205
Leu Ser Lys Ala Glu Ile Leu Gly Asn Trp Asn Met Phe Val Gly Ser		
210	215	220
Gln Ala Thr Asn Tyr Gly Glu Asp Leu Thr Arg His His Asp Glu Leu		
225	230	235
		240

&lt;210&gt; 6352

&lt;211&gt; 505

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6352

His Arg Arg Gly Ser Ile Pro Arg Gln Gln Leu Ser Pro Thr Ala Phe		
1	5	10
Pro Ala Arg Asn His Leu Ser Thr Ile Pro Trp Gly Leu Pro Arg Thr		
20	25	30
Ile Glu Glu Leu Arg Leu Asp Asp Asn Arg Ile Ser Thr Ile Ser Ser		
35	40	45
Pro Ser Leu Gln Gly Leu Thr Ser Leu Lys Arg Leu Val Leu Asp Gly		
50	55	60
Asn Leu Leu Asn Asn His Gly Leu Gly Asp Lys Val Phe Phe Asn Leu		
65	70	75
Val Asn Leu Thr Glu Leu Ser Leu Val Arg Asn Ser Leu Thr Ala Ala		
85	90	95

5577

Pro Val Asn Leu Pro Gly Thr Asn Leu Arg Lys Leu Tyr Leu Gln Asp  
 100 105 110

Asn His Ile Asn Arg Val Pro Pro Asn Ala Phe Ser Tyr Leu Arg Gln  
 115 120 125

Leu Tyr Arg Leu Asp Met Ser Asn Asn Asn Leu Ser Asn Leu Pro Gln  
 130 135 140

Gly Ile Phe Asp Asp Leu Asp Asn Ile Thr Gln Leu Ile Leu Arg Asn  
 145 150 155 160

Asn Pro Trp Tyr Cys Gly Cys Lys Met Lys Trp Val Arg Asp Trp Leu  
 165 170 175

Gln Ser Leu Pro Val Lys Val Asn Val Arg Gly Leu Met Cys Gln Ala  
 180 185 190

Pro Glu Lys Val Arg Gly Met Ala Ile Lys Asp Leu Asn Ala Glu Leu  
 195 200 205

Phe Asp Cys Lys Asp Ser Gly Ile Val Ser Thr Ile Gln Ile Thr Thr  
 210 215 220

Ala Ile Pro Asn Thr Val Tyr Pro Ala Gln Gly Gln Trp Pro Ala Pro  
 225 230 235 240

Val Thr Lys Gln Pro Asp Ile Lys Asn Pro Lys Leu Thr Lys Asp Gln  
 245 250 255

Gln Thr Thr Gly Ser Pro Ser Arg Lys Thr Ile Thr Ile Thr Val Lys  
 260 265 270

Ser Val Thr Ser Asp Thr Ile His Ile Ser Trp Lys Leu Ala Leu Pro  
 275 280 285

Met Thr Ala Leu Arg Leu Ser Trp Leu Lys Leu Gly His Ser Pro Ala  
 290 295 300

Phe Gly Ser Ile Thr Glu Thr Ile Val Thr Gly Glu Arg Ser Glu Tyr  
 305 310 315 320

Leu Val Thr Ala Leu Glu Pro Asp Ser Pro Tyr Lys Val Cys Met Val  
 325 330 335

Pro Met Glu Thr Ser Asn Leu Tyr Leu Phe Asp Glu Thr Pro Val Cys  
 340 345 350

Ile Glu Thr Glu Thr Ala Pro Leu Arg Met Tyr Asn Pro Thr Thr Thr  
 355 360 365

5578

Leu Asn Arg Glu Gln Glu Lys Glu Pro Tyr Lys Asn Pro Asn Leu Pro  
 370 375 380  
 Leu Ala Ala Ile Ile Gly Gly Ala Val Ala Leu Val Thr Ile Ala Leu  
 385 390 395 400  
 Leu Ala Leu Val Cys Trp Tyr Val His Arg Asn Gly Ser Leu Phe Ser  
 405 410 415  
 Arg Asn Cys Ala Tyr Ser Lys Gly Arg Arg Arg Lys Asp Asp Tyr Ala  
 420 425 430  
 Glu Ala Gly Thr Lys Lys Asp Asn Ser Ile Leu Glu Ile Arg Glu Thr  
 435 440 445  
 Ser Phe Gln Met Leu Pro Ile Ser Asn Glu Pro Ile Ser Lys Glu Glu  
 450 455 460  
 Phe Val Ile His Thr Ile Phe Pro Pro Asn Gly Met Asn Leu Tyr Lys  
 465 470 475 480  
 Asn Asn His Ser Glu Ser Ser Ser Asn Arg Ser Tyr Arg Asp Ser Gly  
 485 490 495  
 Ile Pro Asp Ser Asp His Ser His Ser  
 500 505

&lt;210&gt; 6353

&lt;211&gt; 719

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (250)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (278)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (647)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 5579

&lt;221&gt; SITE

&lt;222&gt; (650)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6353

Thr Ala Trp Pro Ala Ser Trp Thr Thr Pro Pro Ala Ser Ser Met Ser  
 1 5 10 15

Arg Asp Leu Leu Phe Lys His Tyr Cys Tyr Pro Glu Arg Asp Pro Glu  
 20 25 30

Glu Val Phe Ala Phe Leu Leu Arg Phe Pro His Val Ala Leu Phe Thr  
 35 40 45

Phe Asp Gly Leu Asp Glu Leu His Ser Asp Leu Asp Leu Ser Arg Val  
 50 55 60

Pro Asp Ser Ser Cys Pro Trp Glu Pro Ala His Pro Leu Val Leu Leu  
 65 70 75 80

Ala Asn Leu Leu Ser Gly Lys Leu Leu Lys Gly Ala Ser Lys Leu Leu  
 85 90 95

Thr Ala Arg Thr Gly Ile Glu Val Pro Arg Gln Phe Leu Arg Lys Lys  
 100 105 110

Val Leu Leu Arg Gly Phe Ser Pro Ser His Leu Arg Ala Tyr Ala Arg  
 115 120 125

Arg Met Phe Pro Glu Arg Ala Leu Gln Asp Arg Leu Leu Ser Gln Leu  
 130 135 140

Glu Ala Asn Pro Asn Leu Cys Ser Leu Cys Ser Val Pro Leu Phe Cys  
 145 150 155 160

Trp Ile Ile Phe Arg Cys Phe Gln His Phe Arg Ala Ala Phe Glu Gly  
 165 170 175

Ser Pro Gln Leu Pro Asp Cys Thr Met Thr Leu Thr Asp Val Phe Leu  
 180 185 190

Leu Val Thr Glu Val His Leu Asn Arg Met Gln Pro Ser Ser Leu Val  
 195 200 205

Gln Arg Asn Thr Arg Ser Pro Val Glu Thr Leu His Ala Gly Arg Asp  
 210 215 220

Thr Leu Cys Ser Leu Gly Gln Val Ala His Arg Gly Met Glu Lys Ser  
 225 230 235 240

Leu Phe Val Phe Thr Gln Glu Glu Val Xaa Ala Ser Gly Leu Gln Glu



## 5580

245							250							255					
Arg	Asp	Met	Gln	Leu	Gly	Phe	Leu	Arg	Ala	Leu	Pro	Glu	Leu	Gly	Pro				
			260					265					270						
Gly	Gly	Asp	Gln	Gln	Xaa	Tyr	Glu	Phe	Phe	His	Leu	Thr	Leu	Gln	Ala				
			275					280					285						
Phe	Phe	Thr	Ala	Phe	Phe	Leu	Val	Leu	Asp	Asp	Arg	Val	Gly	Thr	Gln				
			290					295					300						
Glu	Leu	Leu	Arg	Phe	Phe	Gln	Glu	Trp	Met	Pro	Pro	Ala	Gly	Ala	Ala				
305						310					315		320						
Thr	Thr	Ser	Cys	Tyr	Pro	Pro	Phe	Leu	Pro	Phe	Gln	Cys	Leu	Gln	Gly				
			325					330						335					
Ser	Gly	Pro	Ala	Arg	Glu	Asp	Leu	Phe	Lys	Asn	Lys	Asp	His	Phe	Gln				
			340					345					350						
Phe	Thr	Asn	Leu	Phe	Leu	Cys	Gly	Leu	Leu	Ser	Lys	Ala	Lys	Gln	Lys				
			355					360					365						
Leu	Leu	Arg	His	Leu	Val	Pro	Ala	Ala	Ala	Leu	Arg	Arg	Lys	Arg	Lys				
370						375					380								
Ala	Leu	Trp	Ala	His	Leu	Phe	Ser	Ser	Leu	Arg	Gly	Tyr	Leu	Lys	Ser				
385						390					395		400						
Leu	Pro	Arg	Val	Gln	Val	Glu	Ser	Phe	Asn	Gln	Val	Gln	Ala	Met	Pro				
			405					410						415					
Thr	Phe	Ile	Trp	Met	Leu	Arg	Cys	Ile	Tyr	Glu	Thr	Gln	Ser	Gln	Lys				
			420					425						430					
Val	Gly	Gln	Leu	Ala	Ala	Arg	Gly	Ile	Cys	Ala	Asn	Tyr	Leu	Lys	Leu				
			435					440					445						
Thr	Tyr	Cys	Asn	Ala	Cys	Ser	Ala	Asp	Cys	Ser	Ala	Leu	Ser	Phe	Val				
450						455					460								
Leu	His	His	Phe	Pro	Lys	Arg	Leu	Ala	Leu	Asp	Leu	Asp	Asn	Asn	Asn				
465						470					475		480						
Leu	Asn	Asp	Tyr	Gly	Val	Arg	Glu	Leu	Gln	Pro	Cys	Phe	Ser	Arg	Leu				
			485					490						495					
Thr	Val	Leu	Arg	Leu	Ser	Val	Asn	Gln	Ile	Thr	Asp	Gly	Gly	Val	Lys				
			500					505						510					
Val	Leu	Ser	Glu	Glu	Leu	Thr	Lys	Tyr	Lys	Ile	Val	Thr	Tyr	Leu	Gly				

## 5581

515	520	525
Leu Tyr Asn Asn Gln Ile Thr Asp Val Gly Ala Arg Tyr Val Thr Lys		
530	535	540
Ile Leu Asp Glu Cys Lys Gly Leu Thr His Leu Lys Leu Gly Lys Asn		
545	550	555
Lys Ile Thr Ser Glu Gly Gly Lys Tyr Leu Ala Leu Ala Val Lys Asn		
565	570	575
Ser Lys Ser Ile Ser Glu Val Gly Met Trp Gly Asn Gln Val Gly Asp		
580	585	590
Glu Gly Ala Lys Ala Phe Ala Glu Ala Leu Arg Asn His Pro Ser Leu		
595	600	605
Thr Thr Leu Ser Leu Ala Ser Asn Gly Ile Ser Thr Glu Gly Gly Lys		
610	615	620
Ser Leu Ala Arg Ala Leu Gln Gln Asn Thr Ser Leu Glu Ile Leu Trp		
625	630	635
Leu Thr Gln Asn Glu Leu Xaa Asp Glu Xaa Ala Glu Ser Leu Ala Glu		
645	650	655
Met Leu Lys Val Asn Gln Thr Leu Lys His Leu Trp Leu Ile Gln Asn		
660	665	670
Gln Ile Thr Ala Lys Gly Thr Ala Gln Leu Ala Asp Ala Leu Gln Ser		
675	680	685
Asn Thr Gly Ile Thr Glu Ile Cys Leu Asn Gly Asn Leu Ile Lys Pro		
690	695	700
Glu Glu Ala Lys Val Tyr Glu Asp Glu Lys Arg Ile Ile Cys Phe		
705	710	715

&lt;210&gt; 6354

&lt;211&gt; 729

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

5582

&lt;221&gt; SITE

&lt;222&gt; (196)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6354

Leu Ser Pro Leu Lys Leu Tyr Ala Gln Val Cys Arg Tyr Asp Leu Gly  
 1 5 10 15

Pro Tyr Leu Ala Ser Leu Pro Leu Asp Ser Ser Leu Leu Xaa Gln Pro  
 20 25 30

Asn Leu Val Ala Pro Thr Ser Gln Ser Leu Ile Thr Pro Pro Gln Met  
 35 40 45

Thr Asn Thr Gly Asn Ala Asn Thr Pro Ser Ala Thr Leu Ala Ser Ala  
 50 55 60

Ala Ser Ser Thr Met Thr Val Thr Ser Gly Val Ala Ile Ser Thr Ser  
 65 70 75 80

Val Ala Thr Ala Asn Ser Thr Leu Thr Thr Ala Ser Thr Ser Ser Ser  
 85 90 95

Ser Ser Ser Asn Leu Asn Ser Gly Val Ser Ser Asn Lys Leu Pro Ser  
 100 105 110

Phe Pro Pro Phe Gly Ser Met Asn Ser Asn Ala Ala Gly Ser Met Ser  
 115 120 125

Thr Gln Ala Asn Thr Val Gln Ser Gly Gln Leu Gly Gly Gln Gln Thr  
 130 135 140

Ser Ala Leu Gln Thr Ala Gly Ile Ser Gly Glu Ser Ser Ser Leu Pro  
 145 150 155 160

Thr Gln Pro His Pro Asp Val Ser Glu Ser Thr Met Asp Arg Asp Lys  
 165 170 175

Val Gly Ile Pro Thr Asp Gly Asp Ser His Ala Val Thr Tyr Pro Pro  
 180 185 190

Ala Ile Val Xaa Tyr Ile Ile Asp Pro Phe Thr Tyr Glu Asn Thr Asp  
 195 200 205

Glu Ser Thr Asn Ser Ser Ser Val Trp Thr Leu Gly Leu Leu Arg Cys  
 210 215 220

Phe Leu Glu Met Val Gln Thr Leu Pro Pro His Ile Lys Ser Thr Val  
 225 230 235 240

Ser Val Gln Ile Ile Pro Cys Gln Tyr Leu Leu Gln Pro Val Lys His

245							250							255						
Glu	Asp	Arg	Glu	Ile	Tyr	Pro	Gln	His	Leu	Lys	Ser	Leu	Ala	Phe	Ser					
			260				265						270							
Ala	Phe	Thr	Gln	Cys	Arg	Arg	Pro	Leu	Pro	Thr	Ser	Thr	Asn	Val	Lys					
			275				280						285							
Thr	Leu	Thr	Gly	Phe	Gly	Pro	Gly	Leu	Ala	Met	Glu	Thr	Ala	Leu	Arg					
			290				295						300							
Ser	Pro	Asp	Arg	Pro	Glu	Cys	Ile	Arg	Leu	Tyr	Ala	Pro	Pro	Phe	Ile					
305						310						315			320					
Leu	Ala	Pro	Val	Lys	Asp	Lys	Gln	Thr	Glu	Leu	Gly	Glu	Thr	Phe	Gly					
						325						330			335					
Glu	Ala	Gly	Gln	Lys	Tyr	Asn	Val	Leu	Phe	Val	Gly	Tyr	Cys	Leu	Ser					
			340						345						350					
His	Asp	Gln	Arg	Trp	Ile	Leu	Ala	Ser	Cys	Thr	Asp	Leu	Tyr	Gly	Glu					
			355						360						365					
Leu	Leu	Glu	Thr	Cys	Ile	Ile	Asn	Ile	Asp	Val	Pro	Asn	Arg	Ala	Arg					
370						375						380								
Arg	Lys	Lys	Ser	Ser	Ala	Arg	Lys	Phe	Gly	Leu	Gln	Lys	Leu	Trp	Glu					
385						390						395			400					
Trp	Cys	Leu	Gly	Leu	Val	Gln	Met	Ser	Ser	Leu	Pro	Trp	Arg	Val	Val					
			405						410						415					
Ile	Gly	Arg	Leu	Gly	Arg	Ile	Gly	His	Gly	Glu	Leu	Lys	Asp	Trp	Ser					
			420						425						430					
Cys	Leu	Leu	Ser	Arg	Arg	Asn	Leu	Gln	Ser	Leu	Ser	Lys	Arg	Leu	Lys					
			435						440						445					
Asp	Met	Cys	Arg	Met	Cys	Gly	Ile	Ser	Ala	Ala	Asp	Ser	Pro	Ser	Ile					
450						455						460								
Leu	Ser	Ala	Cys	Leu	Val	Ala	Met	Glu	Pro	Gln	Gly	Ser	Phe	Val	Ile					
465						470						475			480					
Met	Pro	Asp	Ser	Val	Ser	Thr	Gly	Ser	Val	Phe	Gly	Arg	Ser	Thr	Thr					
			485						490						495					
Leu	Asn	Met	Gln	Thr	Ser	Gln	Leu	Asn	Thr	Pro	Gln	Asp	Thr	Ser	Cys					
			500						505						510					
Thr	His	Ile	Leu	Val	Phe	Pro	Thr	Ser	Ala	Ser	Val	Gln	Val	Ala	Ser					

## 5584

515					520					525						
Ala	Thr	Tyr	Thr	Thr	Glu	Asn	Leu	Asp	Leu	Ala	Phe	Asn	Pro	Asn	Asn	
530					535					540						
Asp	Gly	Ala	Asp	Gly	Met	Gly	Ile	Phe	Asp	Leu	Leu	Asp	Thr	Gly	Asp	
545					550					555					560	
Asp	Leu	Asp	Pro	Asp	Ile	Ile	Asn	Ile	Leu	Pro	Ala	Ser	Pro	Thr	Gly	
565					570					575						
Ser	Pro	Val	His	Ser	Pro	Gly	Ser	His	Tyr	Pro	His	Gly	Gly	Asp	Ala	
580					585					590						
Gly	Lys	Gly	Gln	Ser	Thr	Asp	Arg	Leu	Leu	Ser	Thr	Glu	Pro	His	Glu	
595					600					605						
Glu	Val	Pro	Asn	Ile	Leu	Gln	Gln	Pro	Leu	Ala	Leu	Gly	Tyr	Phe	Val	
610					615					620						
Ser	Thr	Ala	Lys	Ala	Gly	Pro	Leu	Pro	Asp	Trp	Phe	Trp	Ser	Ala	Cys	
625					630					635					640	
Pro	Gln	Ala	Gln	Tyr	Gln	Cys	Pro	Leu	Phe	Leu	Lys	Ala	Ser	Leu	His	
645					650					655						
Leu	His	Val	Pro	Ser	Val	Gln	Ser	Asp	Glu	Leu	Leu	His	Ser	Lys	His	
660					665					670						
Ser	His	Pro	Leu	Asp	Ser	Asn	Gln	Thr	Ser	Asp	Val	Leu	Arg	Phe	Val	
675					680					685						
Leu	Glu	Gln	Tyr	Asn	Ala	Leu	Ser	Trp	Leu	Thr	Cys	Asp	Pro	Ala	Thr	
690					695					700						
Gln	Asp	Arg	Arg	Ser	Cys	Leu	Pro	Ile	His	Phe	Val	Val	Leu	Asn	Gln	
705					710					715					720	
Leu	Tyr	Asn	Phe	Ile	Met	Asn	Met	Leu								
725																

&lt;210&gt; 6355

&lt;211&gt; 552

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (47)

## 5585

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6355

Val	Ser	Leu	Thr	Arg	Arg	Glu	Gly	Thr	Gly	Pro	Arg	Pro	Arg	Ala	Ala	1	5	10	15
Gly	Ala	Gly	Ala	Arg	His	Val	His	Arg	Leu	Gly	Arg	Glu	Val	Ala	Ile	20	25	30	
Ala	Glu	Arg	Gln	Glu	Gly	Arg	Gly	Gly	Pro	Gly	Arg	Arg	Pro	Xaa	Val	35	40	45	
Gly	Arg	Arg	Trp	Gly	Arg	Pro	Ala	Arg	Leu	His	Leu	Arg	Ala	His	Gly	50	55	60	
Pro	Arg	Pro	Ser	Val	Arg	Thr	Gly	Leu	Pro	Ser	Val	Gly	Arg	Gln	Ala	65	70	75	80
Ala	Gly	Ala	Ala	Met	Gly	Arg	Gly	Trp	Gly	Phe	Leu	Phe	Gly	Leu	Leu	85	90	95	
Gly	Ala	Val	Trp	Leu	Leu	Ser	Ser	Gly	His	Gly	Glu	Glu	Gln	Pro	Pro	100	105	110	
Glu	Thr	Ala	Ala	Gln	Arg	Cys	Phe	Cys	Gln	Val	Ser	Gly	Tyr	Leu	Asp	115	120	125	
Asp	Cys	Thr	Cys	Asp	Val	Glu	Thr	Ile	Asp	Arg	Phe	Asn	Asn	Tyr	Arg	130	135	140	
Leu	Phe	Pro	Arg	Leu	Gln	Lys	Leu	Leu	Glu	Ser	Asp	Tyr	Phe	Arg	Tyr	145	150	155	160
Tyr	Lys	Val	Asn	Leu	Lys	Arg	Pro	Cys	Pro	Phe	Trp	Asn	Asp	Ile	Ser	165	170	175	
Gln	Cys	Gly	Arg	Arg	Asp	Cys	Ala	Val	Lys	Pro	Cys	Gln	Ser	Asp	Glu	180	185	190	
Val	Pro	Asp	Gly	Ile	Lys	Ser	Ala	Ser	Tyr	Lys	Tyr	Ser	Glu	Glu	Ala	195	200	205	
Asn	Asn	Leu	Ile	Glu	Glu	Cys	Glu	Gln	Ala	Glu	Arg	Leu	Gly	Ala	Val	210	215	220	
Asp	Glu	Ser	Leu	Ser	Glu	Glu	Thr	Gln	Lys	Ala	Val	Leu	Gln	Trp	Thr	225	230	235	240
Lys	His	Asp	Asp	Ser	Ser	Asp	Asn	Phe	Cys	Glu	Ala	Asp	Asp	Ile	Gln	245	250	255	

## 5586

Ser Pro Glu Ala Glu Tyr Val Asp Leu Leu Leu Asn Pro Glu Arg Tyr  
 260 265 270  
 Thr Gly Tyr Lys Gly Pro Asp Ala Trp Lys Ile Trp Asn Val Ile Tyr  
 275 280 285  
 Glu Glu Asn Cys Phe Lys Pro Gln Thr Ile Lys Arg Pro Leu Asn Pro  
 290 295 300  
 Leu Ala Ser Gly Gln Gly Thr Ser Glu Glu Asn Thr Phe Tyr Ser Trp  
 305 310 315 320  
 Leu Glu Gly Leu Cys Val Glu Lys Arg Ala Phe Tyr Arg Leu Ile Ser  
 325 330 335  
 Gly Leu His Ala Ser Ile Asn Val His Leu Ser Ala Arg Tyr Leu Leu  
 340 345 350  
 Gln Glu Thr Trp Leu Glu Lys Lys Trp Gly His Asn Ile Thr Glu Phe  
 355 360 365  
 Gln Gln Arg Phe Asp Gly Ile Leu Thr Glu Gly Glu Gly Pro Arg Arg  
 370 375 380  
 Leu Lys Asn Leu Tyr Phe Leu Tyr Leu Ile Glu Leu Arg Ala Leu Ser  
 385 390 395 400  
 Lys Val Leu Pro Phe Phe Glu Arg Pro Asp Phe Gln Leu Phe Thr Gly  
 405 410 415  
 Asn Lys Ile Gln Asp Glu Glu Asn Lys Met Leu Leu Leu Glu Ile Leu  
 420 425 430  
 His Glu Ile Lys Ser Phe Pro Leu His Phe Asp Glu Asn Ser Phe Phe  
 435 440 445  
 Ala Gly Asp Lys Lys Glu Ala His Lys Leu Lys Glu Asp Phe Arg Leu  
 450 455 460  
 His Phe Arg Asn Ile Ser Arg Ile Met Asp Cys Val Gly Cys Phe Lys  
 465 470 475 480  
 Cys Arg Leu Trp Gly Lys Leu Gln Thr Gln Gly Leu Gly Thr Ala Leu  
 485 490 495  
 Lys Ile Leu Phe Ser Glu Lys Leu Ile Ala Asn Met Pro Glu Ser Gly  
 500 505 510  
 Pro Ser Tyr Glu Phe His Leu Thr Arg Gln Glu Ile Val Ser Leu Phe  
 515 520 525

## 5587

Asn Ala Phe Gly Arg Ile Ser Thr Ser Val Lys Glu Leu Glu Asn Phe  
 530 535 540

Arg Asn Leu Leu Gln Asn Ile His  
 545 550

<210> 6356

<211> 481

<212> PRT

<213> Homo sapiens

<400> 6356

Ala Thr Asn Arg Val Val Ala Pro Thr Pro Gly Pro Gly Thr Pro Ala  
 1 5 10 15

Glu Arg His Ala Asp Gly Leu Ala Leu Ala Leu Glu Pro Ala Leu Ala  
 20 25 30

Ser Pro Ala Gly Ala Ala Asn Phe Leu Ala Met Val Asp Asn Leu Gln  
 35 40 45

Gly Asp Ser Gly Arg Gly Tyr Tyr Leu Glu Met Leu Ile Gly Thr Pro  
 50 55 60

Pro Gln Lys Leu Gln Ile Leu Val Asp Thr Gly Ser Ser Asn Phe Ala  
 65 70 75 80

Val Ala Gly Thr Pro His Ser Tyr Ile Asp Thr Tyr Phe Asp Thr Glu  
 85 90 95

Arg Ser Ser Thr Tyr Arg Ser Lys Gly Phe Asp Val Thr Val Lys Tyr  
 100 105 110

Thr Gln Gly Ser Trp Thr Gly Phe Val Gly Glu Asp Leu Val Thr Ile  
 115 120 125

Pro Lys Gly Phe Asn Thr Ser Phe Leu Val Asn Ile Ala Thr Ile Phe  
 130 135 140

Glu Ser Glu Asn Phe Phe Leu Pro Gly Ile Lys Trp Asn Gly Ile Leu  
 145 150 155 160

Gly Leu Ala Tyr Ala Thr Leu Ala Lys Pro Ser Ser Ser Leu Glu Thr  
 165 170 175

Phe Phe Asp Ser Leu Val Thr Gln Ala Asn Ile Pro Asn Val Phe Ser  
 180 185 190

Met Gln Met Cys Gly Ala Gly Leu Pro Val Ala Gly Ser Gly Thr Asn



5588

195					200					205					
Gly	Gly	Ser	Leu	Val	Leu	Gly	Gly	Ile	Glu	Pro	Ser	Leu	Tyr	Lys	Gly
210						215					220				
Asp	Ile	Trp	Tyr	Thr	Pro	Ile	Lys	Glu	Glu	Trp	Tyr	Tyr	Gln	Ile	Glu
225					230					235					240
Ile	Leu	Lys	Leu	Glu	Ile	Gly	Gly	Gln	Ser	Leu	Asn	Leu	Asp	Cys	Arg
				245					250					255	
Glu	Tyr	Asn	Ala	Asp	Lys	Ala	Ile	Val	Asp	Ser	Gly	Thr	Thr	Leu	Leu
			260					265						270	
Arg	Leu	Pro	Gln	Lys	Val	Phe	Asp	Ala	Val	Val	Glu	Ala	Val	Ala	Arg
		275					280					285			
Ala	Ser	Leu	Ile	Pro	Glu	Phe	Ser	Asp	Gly	Phe	Trp	Thr	Gly	Ser	Gln
290						295					300				
Leu	Ala	Cys	Trp	Thr	Asn	Ser	Glu	Thr	Pro	Trp	Ser	Tyr	Phe	Pro	Lys
305					310					315					320
Ile	Ser	Ile	Tyr	Leu	Arg	Asp	Glu	Asn	Ser	Ser	Arg	Ser	Phe	Arg	Ile
				325					330					335	
Thr	Ile	Leu	Pro	Gln	Leu	Tyr	Ile	Gln	Pro	Met	Met	Gly	Ala	Gly	Leu
			340					345					350		
Asn	Tyr	Glu	Cys	Tyr	Arg	Phe	Gly	Ile	Ser	Pro	Ser	Thr	Asn	Ala	Leu
		355					360					365			
Val	Ile	Gly	Ala	Thr	Val	Met	Glu	Gly	Phe	Tyr	Val	Ile	Phe	Asp	Arg
		370				375						380			
Ala	Gln	Lys	Arg	Val	Gly	Phe	Ala	Ala	Ser	Pro	Cys	Ala	Glu	Ile	Ala
385					390					395					400
Gly	Ala	Ala	Val	Ser	Glu	Ile	Ser	Gly	Pro	Phe	Ser	Thr	Glu	Asp	Val
				405					410					415	
Ala	Ser	Asn	Cys	Val	Pro	Ala	Gln	Ser	Leu	Ser	Glu	Pro	Ile	Leu	Trp
			420					425					430		
Ile	Val	Ser	Tyr	Ala	Leu	Met	Ser	Val	Cys	Gly	Ala	Ile	Leu	Leu	Val
		435						440				445			
Leu	Ile	Val	Leu	Leu	Leu	Leu	Pro	Phe	Arg	Cys	Gln	Arg	Arg	Pro	Arg
		450				455					460				
Asp	Pro	Glu	Val	Val	Asn	Asp	Glu	Ser	Ser	Leu	Val	Arg	His	Arg	Trp

## 5589

465

470

475

480

Lys

&lt;210&gt; 6357

&lt;211&gt; 441

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6357

Gly Gly Ser Trp Cys Arg Ser Ser Pro Gly Arg Asp Gly Ser Pro Gly  
 1 5 10 15

Ala Lys Gly Asp Arg Gly Glu Thr Gly Pro Ala Gly Pro Pro Gly Ala  
 20 25 30

Pro Gly Ala Pro Gly Ala Pro Gly Pro Val Gly Pro Ala Gly Lys Ser  
 35 40 45

Gly Asp Arg Gly Glu Thr Gly Pro Ala Gly Pro Ala Gly Pro Val Gly  
 50 55 60

Pro Val Gly Ala Arg Gly Pro Ala Gly Pro Gln Gly Pro Arg Gly Asp  
 65 70 75 80

Lys Gly Glu Thr Gly Glu Gln Gly Asp Arg Gly Ile Lys Gly His Arg  
 85 90 95

Gly Phe Ser Gly Leu Gln Gly Pro Pro Gly Pro Pro Gly Ser Pro Gly  
 100 105 110

Glu Gln Gly Pro Ser Gly Ala Ser Gly Pro Ala Gly Pro Arg Gly Pro  
 115 120 125

Pro Gly Ser Ala Gly Ala Pro Gly Lys Asp Gly Leu Asn Gly Leu Pro  
 130 135 140

Gly Pro Ile Gly Pro Pro Gly Pro Arg Gly Arg Thr Gly Asp Ala Gly  
 145 150 155 160

Pro Val Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro  
 165 170 175

Pro Ser Ala Gly Phe Asp Phe Ser Phe Leu Pro Gln Pro Pro Gln Glu  
 180 185 190

Lys Ala His Asp Gly Gly Arg Tyr Tyr Arg Ala Asp Asp Ala Asn Val  
 195 200 205

## 5590

Val Arg Asp Arg Asp Leu Glu Val Asp Thr Thr Leu Lys Ser Leu Ser  
 210 215 220  
 Gln Gln Ile Glu Asn Ile Arg Ser Pro Glu Gly Ser Arg Lys Asn Pro  
 225 230 235 240  
 Ala Arg Thr Cys Arg Asp Leu Lys Met Cys His Ser Asp Trp Lys Ser  
 245 250 255  
 Gly Glu Tyr Trp Ile Asp Pro Asn Gln Gly Cys Asn Leu Asp Ala Ile  
 260 265 270  
 Lys Val Phe Cys Asn Met Glu Thr Gly Glu Thr Cys Val Tyr Pro Thr  
 275 280 285  
 Gln Pro Ser Val Ala Gln Lys Asn Trp Tyr Ile Ser Lys Asn Pro Lys  
 290 295 300  
 Asp Lys Arg His Val Trp Phe Gly Glu Ser Met Thr Asp Gly Phe Gln  
 305 310 315 320  
 Phe Glu Tyr Gly Gly Gln Gly Ser Asp Pro Ala Asp Val Ala Ile Gln  
 325 330 335  
 Leu Thr Phe Leu Arg Leu Met Ser Thr Glu Ala Ser Gln Asn Ile Thr  
 340 345 350  
 Tyr His Cys Lys Asn Ser Val Ala Tyr Met Asp Gln Gln Thr Gly Asn  
 355 360 365  
 Leu Lys Lys Ala Leu Leu Leu Gln Gly Ser Asn Glu Ile Glu Ile Arg  
 370 375 380  
 Ala Glu Gly Asn Ser Arg Phe Thr Tyr Ser Val Thr Val Asp Gly Cys  
 385 390 395 400  
 Thr Ser His Thr Gly Ala Trp Gly Lys Thr Val Ile Glu Tyr Lys Thr  
 405 410 415  
 Thr Lys Thr Ser Arg Leu Pro Ile Ile Asp Val Ala Pro Leu Asp Val  
 420 425 430  
 Gly Ala Pro Asp Gln Glu Phe Gly Phe  
 435 440

&lt;210&gt; 6358

&lt;211&gt; 458

&lt;212&gt; PRT

## 5591

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6358

Arg	Arg	Ser	Pro	Leu	Thr	Ala	Pro	Leu	Thr	Thr	Thr	Asn	Pro	Tyr	Ser	1	5	10	15
Thr	Arg	Leu	Val	Cys	Pro	Thr	Leu	Gly	Asp	Ala	Glu	Pro	Gln	Pro	Arg	20	25	30	
Pro	Arg	Pro	Lys	His	Ser	Phe	Asn	Trp	Tyr	Cys	Gly	Xaa	Arg	Gly	Phe	35	40	45	
Cys	Leu	Leu	Gln	Leu	Ala	Pro	Ala	Ala	Gly	Arg	Ser	Cys	Asp	Ser	Ala	50	55	60	
Glu	Ser	Arg	Arg	Arg	Val	Leu	Val	Leu	Thr	Arg	Arg	Ala	Met	Thr	Val	65	70	75	80
Ala	Arg	Pro	Ser	Val	Pro	Ala	Ala	Leu	Pro	Leu	Leu	Gly	Glu	Leu	Pro	85	90	95	
Arg	Leu	Leu	Leu	Leu	Val	Leu	Leu	Cys	Leu	Pro	Ala	Val	Trp	Gly	Asp	100	105	110	
Cys	Gly	Leu	Pro	Pro	Asp	Val	Pro	Asn	Ala	Gln	Pro	Ala	Leu	Glu	Gly	115	120	125	
Arg	Thr	Ser	Phe	Pro	Glu	Asp	Thr	Val	Ile	Thr	Tyr	Lys	Cys	Glu	Glu	130	135	140	
Ser	Phe	Val	Lys	Ile	Pro	Gly	Glu	Lys	Asp	Ser	Val	Ile	Cys	Leu	Lys	145	150	155	160
Gly	Ser	Gln	Trp	Ser	Asp	Ile	Glu	Glu	Phe	Cys	Asn	Arg	Ser	Cys	Glu	165	170	175	
Val	Pro	Thr	Arg	Leu	Asn	Ser	Ala	Ser	Leu	Lys	Gln	Pro	Tyr	Ile	Thr	180	185	190	
Gln	Asn	Tyr	Phe	Pro	Val	Gly	Thr	Val	Val	Glu	Tyr	Glu	Cys	Arg	Pro	195	200	205	
Gly	Tyr	Arg	Arg	Glu	Pro	Ser	Leu	Ser	Pro	Lys	Leu	Thr	Cys	Leu	Gln	210	215	220	
Asn	Leu	Lys	Trp	Ser	Thr	Ala	Val	Glu	Phe	Cys	Lys	Lys	Lys	Ser	Cys				

## 5592

225					230						235				240
Pro	Asn	Pro	Gly	Glu	Ile	Arg	Asn	Gly	Gln	Ile	Asp	Val	Pro	Gly	Gly
				245					250					255	
Ile	Leu	Phe	Gly	Ala	Thr	Ile	Ser	Phe	Ser	Cys	Asn	Thr	Gly	Tyr	Lys
			260					265					270		
Leu	Phe	Gly	Ser	Thr	Ser	Ser	Phe	Cys	Leu	Ile	Ser	Gly	Ser	Ser	Val
		275					280					285			
Gln	Trp	Ser	Asp	Pro	Leu	Pro	Glu	Cys	Arg	Glu	Ile	Tyr	Cys	Pro	Ala
	290					295					300				
Pro	Pro	Gln	Ile	Asp	Asn	Gly	Ile	Ile	Gln	Gly	Glu	Arg	Asp	His	Tyr
305					310					315					320
Gly	Tyr	Arg	Gln	Ser	Val	Thr	Tyr	Ala	Cys	Asn	Lys	Gly	Phe	Thr	Met
				325					330					335	
Ile	Gly	Glu	His	Ser	Ile	Tyr	Cys	Thr	Val	Asn	Asn	Asp	Glu	Gly	Glu
			340					345					350		
Trp	Ser	Gly	Pro	Pro	Pro	Glu	Cys	Arg	Gly	Lys	Ser	Leu	Thr	Ser	Lys
		355					360					365			
Val	Pro	Pro	Thr	Val	Gln	Lys	Pro	Thr	Thr	Val	Asn	Val	Pro	Thr	Thr
			370			375					380				
Glu	Val	Ser	Pro	Thr	Ser	Gln	Lys	Thr	Thr	Thr	Lys	Thr	Thr	Thr	Pro
385					390					395					400
Asn	Ala	Gln	Ala	Thr	Arg	Ser	Thr	Pro	Val	Ser	Arg	Thr	Thr	Lys	His
				405					410					415	
Phe	His	Glu	Thr	Thr	Pro	Asn	Lys	Gly	Ser	Gly	Thr	Thr	Ser	Gly	Thr
			420					425					430		
Thr	Arg	Leu	Leu	Ser	Gly	His	Thr	Cys	Phe	Thr	Leu	Thr	Gly	Leu	Leu
		435					440					445			
Gly	Thr	Leu	Val	Thr	Met	Gly	Leu	Leu	Thr						
		450				455									

&lt;210&gt; 6359

&lt;211&gt; 133

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

5593

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6359

Thr Asn His Ala Asn Val Asn Glu Gly Xaa Val Pro Xaa Xaa Met Leu  
 1 5 10 15

Val Ala Asn Asp Gln Met Ala Leu Gly Ala Met Arg Ala Ile Thr Glu  
 20 25 30

Ser Gly Leu Arg Val Gly Ala Asp Ile Ser Val Val Gly Tyr Asp Asp  
 35 40 45

Thr Glu Asp Ser Ser Cys Tyr Ile Pro Pro Leu Thr Thr Ile Lys Gln  
 50 55 60

Asp Phe Arg Leu Leu Gly Gln Thr Ser Val Asp Arg Leu Leu Gln Leu  
 65 70 75 80

Ser Gln Gly Gln Ala Val Lys Gly Asn Gln Leu Leu Pro Val Ser Leu  
 85 90 95

Val Lys Arg Lys Thr Thr Leu Ala Pro Asn Thr Gln Thr Ala Ser Pro  
 100 105 110

Arg Ala Leu Ala Asp Ser Leu Met Gln Leu Ala Arg Gln Val Ser Arg  
 115 120 125

Leu Glu Ser Gly Gln  
 130

&lt;210&gt; 6360

&lt;211&gt; 332

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

## 5594

&lt;221&gt; SITE

&lt;222&gt; (199)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (255)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6360

Arg Glu Gln Lys Leu Glu Leu His Arg Gly Gly Gly Arg Ser Arg Thr

1

5

10

15

Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Ser Arg Ala Pro Ala

20

25

30

Ser Cys Pro Ser Arg Gln Glu Glu Trp Gly Leu Thr Ser Thr Ser Val

35

40

45

Leu Lys Arg Glu Ala Pro Ala Gly Arg Asp Pro Glu Glu Pro Gly Asp

50

55

60

Val Gly Ala Gly Asp Pro Asn Ser Asp Gln Gly Leu Pro Val Leu Met

65

70

75

80

Thr Gln Gly Thr Glu Asp Leu Lys Gly Pro Gly Gln Arg Cys Glu Asn

85

90

95

Glu Pro Leu Leu Asp Pro Val Gly Pro Glu Pro Leu Gly Pro Glu Ser

100

105

110

Gln Ser Gly Lys Gly Asp Met Val Glu Met Ala Thr Arg Phe Gly Ser

115

120

125

Thr Leu Gln Leu Asp Leu Glu Lys Gly Lys Glu Ser Leu Leu Glu Lys

130

135

140

Arg Leu Val Ala Glu Glu Glu Glu Asp Glu Glu Glu Val Glu Glu Asp

145

150

155

160

Gly Pro Ser Ser Cys Ser Glu Asp Asp Tyr Ser Glu Leu Leu Gln Glu

165

170

175

Ile Thr Asp Asn Leu Thr Lys Lys Glu Ile Gln Ile Glu Lys Ile His

180

185

190

Leu Asp Thr Ser Ser Phe Xaa Glu Glu Leu Pro Gly Glu Lys Asp Leu

195

200

205

Ala His Val Val Glu Ile Tyr Asp Phe Glu Pro Ala Leu Lys Thr Glu

210

215

220

5595

Asp Leu Leu Ala Thr Phe Ser Glu Phe Gln Glu Lys Gly Phe Arg Ile  
225 230 235 240

Gln Trp Val Asp Asp Thr His Ala Leu Gly Ile Phe Pro Cys Xaa Ala  
245 250 255

Ser Ala Ala Glu Ala Leu Thr Arg Glu Phe Ser Val Leu Lys Ile Arg  
260 265 270

Pro Leu Thr Gln Gly Thr Lys Gln Ser Lys Leu Lys Ala Leu Gln Arg  
275 280 285

Pro Lys Leu Leu Arg Leu Val Lys Glu Arg Pro Gln Thr Asn Ala Thr  
290 295 300

Val	Ala	Arg	Arg	Leu	Val	Ala	Arg	Ala	Leu	Gly	Leu	Gln	His	Lys	Lys
305					310					315					320

Lys Glu Arg Pro Ala Val Arg Gly Pro Leu Pro Pro  
325 330

<210> 6361

<211> 258

<212> PRT

<213> Homo sapiens

**<220>**

<221> SITE

$\langle 222 \rangle$  (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6361

Pro Gly Arg Gly Phe Gln Arg Phe Phe Lys Ala Val Glu Pro Lys Trp  
1 5 10 15

Asp Leu Lys Thr Asp Trp Gln Ile Ile Ser Glu Ile Ala Thr Arg Met  
20 25 30

Gly Tyr Pro Met His Tyr Asn Asn Thr Gln Glu Ile Trp Asp Glu Leu  
35 40 45

Arg His Leu Cys Pro Asp Phe Tyr Gly Ala Thr Tyr Glu Lys Met Gly  
50 55 60

Glu Leu Gly Phe Ile Gln Trp Pro Cys Arg Asp Thr Ser Asp Ala Asp  
65 70 75 80

Gln Gly Thr Ser Tyr Leu Phe Lys Glu Lys Phe Asp Thr Pro Asn Gly



## 5596

	85		90		95	
Leu Ala Gln Phe Phe Thr Cys Asp Trp Val Ala Pro Ile Asp Lys Leu						
	100		105		110	
Thr Asp Glu Tyr Pro Met Val Leu Ser Thr Val Arg Glu Val Gly His						
	115		120		125	
Tyr Ser Cys Arg Ser Met Thr Gly Asn Cys Ala Xaa Leu Ala Ala Leu						
	130		135		140	
Ala Asp Glu Pro Gly Tyr Ala Gln Ile Asn Thr Glu Asp Ala Lys Arg						
	145		150		155	160
Leu Gly Ile Glu Asp Glu Ala Leu Val Trp Val His Ser Arg Lys Gly						
	165		170		175	
Lys Ile Ile Thr Arg Ala Gln Val Ser Asp Arg Pro Asn Lys Gly Ala						
	180		185		190	
Ile Tyr Met Thr Tyr Gln Trp Trp Ile Gly Ala Cys Asn Glu Leu Val						
	195		200		205	
Thr Glu Asn Leu Ser Pro Ile Thr Lys Thr Pro Glu Tyr Lys Tyr Cys						
	210		215		220	
Ala Val Arg Val Glu Pro Ile Ala Asp Gln Arg Ala Ala Glu Gln Tyr						
	225		230		235	240
Val Ile Asp Glu Tyr Asn Lys Leu Lys Thr Arg Leu Arg Glu Ala Ala						
	245		250		255	
Leu Ala						

&lt;210&gt; 6362

&lt;211&gt; 38

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6362

Phe Cys Ile Phe Leu Val Glu Thr Gly Phe Leu His Val Gly Gln Gly
1 5 10 15

Ser Pro Glu Leu Leu Thr Ser Ser Asp Leu Pro Ala Ser Ala Ser Gln
20 25 30

Val Leu Gly Leu Gln Ala
35

5597

&lt;210&gt; 6363

&lt;211&gt; 232

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6363

Leu Pro Val Pro Gly Arg Gly Arg Val Phe Phe Glu Asp Leu Gly Leu  
 1 5 10 15

Arg Asp Thr Val Arg Met Ala Val Val Pro Leu Leu Leu Leu Gly Gly  
 20 25 30

Leu Trp Ser Ala Val Gly Ala Ser Ser Leu Gly Val Val Thr Cys Gly  
 35 40 45

Ser Val Val Lys Leu Leu Asn Thr Arg His Asn Val Arg Leu His Ser  
 50 55 60

His Asp Val Arg Tyr Gly Ser Gly Ser Gly Gln Gln Ser Val Thr Gly  
 65 70 75 80

Val Thr Ser Val Asp Asp Ser Asn Ser Tyr Trp Arg Ile Arg Gly Lys  
 85 90 95

Ser Ala Thr Val Cys Glu Arg Gly Thr Pro Ile Lys Cys Gly Gln Pro  
 100 105 110

Ile Arg Leu Thr His Val Asn Thr Gly Arg Asn Leu His Ser His His  
 115 120 125

Phe Thr Ser Pro Leu Ser Gly Asn Gln Glu Val Ser Ala Phe Gly Glu  
 130 135 140

Glu Gly Glu Gly Asp Tyr Leu Asp Asp Trp Thr Val Leu Cys Asn Gly  
 145 150 155 160

Pro Tyr Trp Val Arg Asp Gly Glu Val Arg Phe Lys His Ser Ser Thr  
 165 170 175

Glu Val Leu Leu Ser Val Thr Gly Glu Gln Tyr Gly Arg Pro Ile Ser  
 180 185 190

Gly Gln Lys Glu Val His Gly Met Ala Gln Pro Ser Gln Asn Asn Tyr  
 195 200 205

Trp Lys Ala Met Glu Gly Ile Phe Met Lys Pro Ser Glu Leu Leu Lys  
 210 215 220

5598

Ala Glu Ala His His Ala Glu Leu  
 225 230

&lt;210&gt; 6364

&lt;211&gt; 49

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (29)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6364

Lys Asp Lys Pro Gln Thr Arg Arg Lys Tyr Leu Ser Asn Thr Ser Tyr  
 1 5 10 15

Lys Gly Leu Val Ser Lys Ile Tyr Gln Glu Leu Leu Xaa His Asn Lys  
 20 25 30

Glu Lys Ile Leu Lys Xaa Ser Lys Lys Ser Xaa Xaa Met Tyr His Gln  
 35 40 45

Arg

&lt;210&gt; 6365

&lt;211&gt; 74

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6365

## 5599

Glu Phe Gly Thr Ser Gly Tyr Ile Phe Leu His Leu Gln Leu Pro His  
 1 5 10 15

Gly Val Leu Ile Arg Leu Lys Ser Asn Asn Gly Tyr Lys Asn Thr Leu  
 20 25 30

Lys Ser Arg His Gly Phe Leu Leu Thr Ala Met Arg Glu Phe Leu Glu  
 35 40 45

Leu Asp Leu Asp Gly Pro Lys Gln Leu Glu Asn Trp Thr Lys Asp Ile  
 50 55 60

Lys Lys Lys Leu Phe Ser Thr Ile Gly Gln  
 65 70

<210> 6366

<211> 129

<212> PRT

<213> Homo sapiens

<400> 6366

Gly Arg Gly Lys Ser Gly Pro Gly Leu Pro Gln Ser Cys Leu Leu Cys  
 1 5 10 15

Ala Val Asn Gly Phe Asn Thr Leu Gly Glu Asn Ile Ala Asp Asn Gly  
 20 25 30

Gly Val Arg Gln Ala Tyr Lys Ala Tyr Leu Lys Trp Met Ala Glu Gly  
 35 40 45

Gly Lys Asp Gln Gln Leu Pro Gly Leu Asp Leu Thr His Glu Gln Leu  
 50 55 60

Phe Phe Ile Asn Tyr Ala Gln Val Trp Cys Gly Ser Tyr Arg Pro Glu  
 65 70 75 80

Phe Ala Ile Gln Ser Ile Lys Thr Asp Val His Ser Pro Leu Lys Tyr  
 85 90 95

Arg Val Leu Gly Ser Leu Gln Asn Leu Ala Ala Phe Ala Asp Thr Phe  
 100 105 110

His Cys Ala Arg Gly Thr Pro Met His Pro Lys Glu Arg Cys Arg Val  
 115 120 125

Trp

## 5600

&lt;210&gt; 6367

&lt;211&gt; 469

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (81)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6367

Pro	Val	Ala	Val	Gly	Arg	Val	Arg	Val	Thr	Ala	Glu	Gly	Arg	Xaa	Met
1				5					10					15	

Val	Leu	Gln	Thr	Thr	Lys	Gly	Leu	Arg	Leu	Leu	Phe	Asp	Gly	Asp	Ala
			20					25					30		

His	Leu	Leu	Met	Ser	Ile	Pro	Ser	Pro	Phe	Arg	Gly	Arg	Leu	Cys	Gly
			35				40					45			

Leu	Cys	Gly	Asn	Phe	Asn	Gly	Asn	Trp	Ser	Asp	Asp	Phe	Val	Leu	Pro
	50					55					60				

Asn	Gly	Ser	Ala	Ala	Ser	Ser	Val	Glu	Thr	Phe	Gly	Ala	Ala	Trp	Arg
65					70					75				80	

Xaa	Pro	Gly	Ser	Ser	Lys	Gly	Cys	Gly	Glu	Gly	Cys	Gly	Pro	Gln	Gly
				85					90					95	

Cys	Pro	Val	Cys	Leu	Ala	Glu	Glu	Thr	Ala	Pro	Tyr	Glu	Ser	Asn	Glu
		100						105					110		

Ala	Cys	Gly	Gln	Leu	Arg	Asn	Pro	Gln	Gly	Pro	Phe	Ala	Thr	Cys	Gln
		115					120					125			

Ala	Val	Leu	Ser	Pro	Ser	Glu	Tyr	Phe	Arg	Gln	Cys	Val	Tyr	Asp	Leu
	130					135					140				

Cys	Ala	Gln	Lys	Gly	Asp	Lys	Ala	Phe	Leu	Cys	Arg	Ser	Leu	Ala	Ala
145					150					155				160	

Tyr	Thr	Ala	Ala	Cys	Gln	Ala	Ala	Gly	Val	Ala	Val	Lys	Pro	Trp	Arg
				165					170					175	

Thr	Asp	Ser	Phe	Cys	Pro	Leu	His	Cys	Pro	Ala	His	Ser	His	Tyr	Ser
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

## 5601

	180		185		190	
Ile Cys Thr Arg Thr Cys Gln Gly Ser Cys Ala Ala Leu Ser Gly Leu						
	195		200		205	
Thr Gly Cys Thr Thr Arg Cys Phe Glu Gly Cys Glu Cys Asp Asp Arg						
	210		215		220	
Phe Leu Leu Ser Gln Gly Val Cys Ile Pro Val Gln Asp Cys Gly Cys						
	225		230		235	240
Thr His Asn Gly Arg Tyr Leu Pro Val Asn Ser Ser Leu Leu Thr Ser						
		245		250		255
Asp Cys Ser Glu Arg Cys Ser Cys Ser Ser Ser Ser Gly Leu Thr Cys						
	260		265		270	
Gln Ala Ala Gly Cys Pro Pro Gly Arg Val Cys Glu Val Lys Ala Glu						
	275		280		285	
Ala Arg Asn Cys Trp Ala Thr Arg Gly Leu Cys Val Leu Ser Val Gly						
	290		295		300	
Ala Asn Leu Thr Thr Phe Asp Gly Ala Arg Gly Ala Thr Thr Ser Pro						
	305		310		315	320
Gly Val Tyr Glu Leu Ser Ser Arg Cys Pro Gly Leu Gln Asn Thr Ile						
		325		330		335
Pro Trp Tyr Arg Val Val Ala Glu Val Gln Ile Cys His Gly Lys Thr						
	340		345		350	
Glu Ala Val Gly Gln Val His Ile Phe Phe Gln Asp Gly Met Val Thr						
	355		360		365	
Leu Thr Pro Asn Lys Gly Val Trp Val Asn Gly Leu Arg Val Asp Leu						
	370		375		380	
Pro Ala Glu Lys Leu Ala Ser Val Ser Val Ser Arg Thr Pro Asp Gly						
	385		390		395	400
Ser Leu Leu Val Arg Gln Lys Ala Gly Val Gln Val Trp Leu Gly Ala						
		405		410		415
Asn Gly Lys Val Ala Val Ile Val Ser Asn Asp His Ala Gly Lys Leu						
	420		425		430	
Cys Gly Ala Cys Gly Asn Phe Asp Gly Asp Gln Thr Asn Asp Trp His						
	435		440		445	
Asp Ser Gln Glu Lys Pro Ala Met Glu Lys Trp Arg Ala Gln Asp Phe						

## 5602

450

455

460

Ser Pro Cys Tyr Gly  
465

&lt;210&gt; 6368

&lt;211&gt; 705

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (244)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (337)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6368

Arg Glu Gln Lys Leu Glu Leu His Arg Gly Gly Gly Arg Ser Arg Thr  
1 5 10 15

Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Ser Asn Cys Asn Leu  
20 25 30

Glu Asp Leu Asp Asn Trp Thr Ala Leu Ile Ser Ala Ser Lys Glu Gly  
35 40 45

His Val His Ile Val Glu Glu Leu Leu Lys Cys Gly Val Asn Leu Glu  
50 55 60

His Arg Asp Met Gly Gly Trp Thr Ala Leu Met Trp Ala Cys Tyr Lys  
65 70 75 80

Gly Arg Thr Asp Val Val Glu Leu Leu Leu Ser His Gly Ala Asn Pro  
85 90 95

Ser Val Thr Gly Leu Tyr Ser Val Tyr Pro Ile Ile Trp Ala Ala Gly  
100 105 110

Arg Gly His Ala Asp Ile Val His Leu Leu Leu Gln Asn Gly Ala Lys  
115 120 125

Val Asn Cys Ser Asp Lys Tyr Gly Thr Thr Pro Leu Val Trp Ala Ala  
130 135 140

Arg Lys Gly His Leu Glu Cys Val Lys His Leu Leu Ala Met Gly Ala

## 5603

145		150		155		160
Asp Val Asp Gln Glu Gly Ala Asn Ser Met Thr Ala Leu Ile Val Ala						
	165			170		175
Val Lys Gly Gly Tyr Thr Gln Ser Val Lys Glu Ile Leu Lys Arg Asn						
	180			185		190
Pro Asn Val Asn Leu Thr Asp Lys Asp Gly Asn Thr Ala Leu Met Ile						
	195			200		205
Ala Ser Lys Glu Gly His Thr Glu Ile Val Gln Asp Leu Leu Asp Ala						
	210			215		220
Gly Thr Tyr Val Asn Ile Pro Asp Arg Ser Gly Asp Thr Val Leu Ile						
225			230		235	240
Gly Ala Val Xaa Gly Gly His Val Glu Ile Val Arg Ala Leu Leu Gln						
	245			250		255
Lys Tyr Ala Asp Ile Asp Ile Arg Gly Gln Asp Asn Lys Thr Ala Leu						
	260			265		270
Tyr Trp Ala Val Glu Lys Gly Asn Ala Thr Met Val Arg Asp Ile Leu						
	275			280		285
Gln Cys Asn Pro Asp Thr Glu Ile Cys Thr Lys Asp Gly Glu Thr Pro						
	290			295		300
Leu Ile Lys Ala Thr Lys Met Arg Asn Ile Glu Val Val Glu Leu Leu						
305			310		315	320
Leu Asp Lys Gly Ala Lys Val Ser Ala Val Asp Lys Lys Gly Asp Thr						
	325			330		335
Xaa Leu His Ile Ala Ile Arg Gly Arg Ser Arg Lys Leu Ala Glu Leu						
	340			345		350
Leu Leu Arg Asn Pro Lys Asp Gly Arg Leu Leu Tyr Arg Pro Asn Lys						
	355			360		365
Ala Gly Glu Thr Pro Tyr Asn Ile Asp Cys Ser His Gln Lys Ser Ile						
	370			375		380
Leu Thr Gln Ile Phe Gly Ala Arg His Leu Ser Pro Thr Glu Thr Asp						
385			390		395	400
Gly Asp Met Leu Gly Tyr Asp Leu Tyr Ser Ser Ala Leu Ala Asp Ile						
	405			410		415
Leu Ser Glu Pro Thr Met Gln Pro Pro Ile Cys Val Gly Leu Tyr Ala						



5604

420						425						430					
Gln	Trp	Gly	Ser	Gly	Lys	Ser	Phe	Leu	Leu	Lys	Lys	Leu	Glu	Asp	Glu		
435						440						445					
Met	Lys	Thr	Phe	Ala	Gly	Gln	Gln	Ile	Glu	Pro	Leu	Phe	Gln	Phe	Ser		
450						455						460					
Trp	Leu	Ile	Val	Phe	Leu	Thr	Leu	Leu	Leu	Cys	Gly	Gly	Leu	Gly	Leu		
465			470						475			480					
Leu	Phe	Ala	Phe	Thr	Val	His	Pro	Asn	Leu	Gly	Ile	Ala	Val	Ser	Leu		
			485						490			495					
Ser	Phe	Leu	Ala	Leu	Leu	Tyr	Ile	Phe	Phe	Ile	Val	Ile	Tyr	Phe	Gly		
			500						505			510					
Gly	Arg	Arg	Glu	Gly	Glu	Ser	Trp	Asn	Trp	Ala	Trp	Val	Leu	Ser	Thr		
515						520						525					
Arg	Leu	Ala	Arg	His	Ile	Gly	Tyr	Leu	Glu	Leu	Leu	Leu	Lys	Leu	Met		
530						535						540					
Phe	Val	Asn	Pro	Pro	Glu	Leu	Pro	Glu	Gln	Thr	Thr	Lys	Ala	Leu	Pro		
545			550						555			560					
Val	Arg	Phe	Leu	Phe	Thr	Asp	Tyr	Asn	Arg	Leu	Ser	Ser	Val	Gly	Gly		
			565						570			575					
Glu	Thr	Ser	Leu	Ala	Glu	Met	Ile	Ala	Thr	Leu	Ser	Asp	Ala	Cys	Glu		
			580						585			590					
Arg	Glu	Phe	Gly	Phe	Leu	Ala	Thr	Arg	Leu	Phe	Arg	Val	Phe	Lys	Thr		
595						600						605					
Glu	Asp	Thr	Gln	Gly	Lys	Lys	Lys	Lys	Lys	Asn	Ser	Arg	Gly	Gly	Pro		
610						615						620					
Val	Pro	Asn	Ser	Pro	Tyr	Ser	Glu	Ser	Tyr	Tyr	Asn	Ser	Leu	Ala	Val		
625			630						635			640					
Val	Leu	Gln	Arg	Arg	Asp	Trp	Glu	Asn	Pro	Gly	Val	Thr	Gln	Leu	Asn		
			645						650			655					
Arg	Leu	Ala	Ala	His	Pro	Pro	Phe	Ala	Ser	Trp	Arg	Asn	Ser	Glu	Glu		
			660						665			670					
Ala	Arg	Thr	Asp	Arg	Pro	Ser	Gln	Gln	Leu	Arg	Ser	Leu	Asn	Gly	Glu		
675						680						685					
Trp	Gln	Ile	Val	Ser	Val	Asn	Ile	Leu	Leu	Lys	Phe	Ala	Leu	Asn	Phe		

## 5605

690

695

700

Cys

705

&lt;210&gt; 6369

&lt;211&gt; 294

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (234)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (242)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (247)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (249)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (251)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (259)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (272)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (282)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5606

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (292)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6369

Gly Lys Leu Val Arg Leu Gln Val Pro Val Arg Asn Ser Arg Val Asp  
 1 5 10 15

Pro Arg Val Arg Pro Ser Ser Trp Phe Ala His Gly His Pro Leu Tyr  
 20 25 30

Thr Arg Leu Pro Pro Ser Ala Leu Gln Val Leu Ser Ala Gln Gly Thr  
 35 40 45

Gln Ala Leu Gln Ala Ala Gln Arg Ser Ala Gln Trp Ala Ile Asn Arg  
 50 55 60

Val Ala Met Glu Ile Gln His Arg Ser His Glu Cys Arg Gly Ser Gly  
 65 70 75 80

Arg Pro Arg Pro Gln Ala Leu Leu Gln Asp Pro Pro Glu Pro Gly Pro  
 85 90 95

Cys Gly Glu Arg Arg Pro Ser Thr Ala Asn Val Thr Arg Ala His Gly  
 100 105 110

Arg Ile Val Gly Gly Ser Ala Ala Pro Pro Gly Ala Trp Pro Trp Leu  
 115 120 125

Val Arg Leu Gln Leu Gly Gly Gln Pro Leu Cys Gly Gly Val Leu Val  
 130 135 140

Ala Ala Ser Trp Val Leu Thr Ala Ala His Cys Phe Val Gly Ala Pro  
 145 150 155 160

Asn Glu Leu Leu Trp Thr Val Thr Leu Ala Glu Gly Ser Arg Gly Glu  
 165 170 175

Gln Ala Glu Glu Val Pro Val Asn Arg Ile Leu Pro His Pro Lys Phe  
 180 185 190

Asp Pro Arg Thr Phe His Asn Asp Leu Ala Leu Val Gln Leu Trp Thr  
 195 200 205

Pro Val Thr Arg Gly Asp Arg Arg Ala Pro Cys Ala Cys Pro Gly Ala  
 210 215 220

Pro Gly Ala Pro Cys Arg Asn Arg Leu Xaa His Arg Gly Leu Gly Arg  
 225 230 235 240

5607

Pro Xaa Arg Arg Arg Ala Xaa Gly Xaa Ser Xaa Glu Arg Gly Pro Cys  
245 250 255

Ser Pro Xaa Gln His Arg His Leu Pro Lys Ser Pro Gly Ala Arg Xaa  
260 265 270

Ala Pro Gln His His Ala Leu Arg Arg Xaa Leu Ala Ala Gly Val Asp  
275 280 285

Ser Cys Gln Xaa Asp Ser  
290

<210> 6370

<211> 294

<212> PRT

<213> Homo sapiens

**<220>**

<221> SITE

<222> (239)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6370

Leu Ser Phe Gly Pro Ser Gly Arg Thr Leu Pro Thr Thr Thr Arg Arg  
1 5 10 15

Met Thr Leu Lys Thr Pro Trp Arg Ser Leu Gly Gly Ser Trp Cys Thr  
20 25 30

Ala Thr Ser Ser Gly Pro Pro Gln Tyr Pro Met Ile Leu Ser Ser Leu  
35 40 45

Leu Gly Ser Gly Ile Gln Leu Phe Cys Met Ile Leu Ile Val Ile Phe  
50 55 60

Val Ala Met Leu Gly Met Leu Ser Pro Ser Ser Arg Gly Ala Leu Met  
65 70 75 80

Thr Thr Ala Cys Phe Leu Phe Met Phe Met Gly Val Phe Gly Gly Phe  
85 90 95

Ser Ala Gly Arg Leu Tyr Arg Thr Leu Lys Gly His Arg Trp Lys Lys  
100 105 110

Gly Ala Phe Cys Thr Ala Thr Leu Tyr Pro Gly Val Val Phe Gly Ile  
115 120 125

Cys Phe Val Leu Asn Cys Phe Ile Trp Gly Lys His Ser Ser Gly Ala

## 5608

130		135		140
Val Pro Phe Pro Thr Met	Val Ala Leu Leu Cys Met	Trp Phe Gly Ile		
145	150	155	160	
Ser Leu Pro Leu Val Tyr Leu Gly Tyr Tyr Phe Gly Phe Arg Lys Gln				
	165	170	175	
Pro Tyr Asp Asn Pro Val Arg Thr Asn Gln Ile Pro Arg Gln Ile Pro				
	180	185	190	
Glu Gln Arg Trp Tyr Met Asn Arg Phe Val Gly Ile Leu Met Ala Gly				
	195	200	205	
Ile Leu Pro Phe Gly Ala Met Phe Ile Glu Leu Phe Phe Ile Phe Ser				
	210	215	220	
Ala Ile Trp Glu Asn Gln Phe Tyr Tyr Leu Phe Gly Phe Leu Xaa Leu				
	225	230	235	240
Val Phe Ile Ile Leu Val Val Ser Cys Ser Gln Ile Ser Ile Val Met				
	245	250	255	
Val Tyr Phe Gln Leu Cys Ala Glu Asp Tyr Arg Trp Trp Trp Arg Asn				
	260	265	270	
Phe Leu Val Ser Gly Gly Ser Ala Phe Tyr Val Leu Val Tyr Ala Ile				
	275	280	285	
Phe Tyr Phe Val Asn Lys				
	290			

&lt;210&gt; 6371

&lt;211&gt; 944

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6371

Ser Lys Lys Met Val Phe Leu Pro Leu Lys Trp Ser Leu Ala Thr Met
1 5 10 15
Ser Phe Leu Leu Ser Ser Leu Leu Ala Leu Leu Thr Val Ser Thr Pro
20 25 30
Ser Trp Cys Gln Ser Thr Glu Ala Ser Pro Lys Arg Ser Asp Gly Thr
35 40 45
Pro Phe Pro Trp Asn Lys Ile Arg Leu Pro Glu Tyr Val Ile Pro Val
50 55 60

## 5609

His	Tyr	Asp	Leu	Leu	Ile	His	Ala	Asn	Leu	Thr	Thr	Leu	Thr	Phe	Trp	65	70	75	80
Gly	Thr	Thr	Lys	Val	Glu	Ile	Thr	Ala	Ser	Gln	Pro	Thr	Ser	Thr	Ile	85	90	95	
Ile	Leu	His	Ser	His	His	Leu	Gln	Ile	Ser	Arg	Ala	Thr	Leu	Arg	Lys	100	105	110	
Gly	Ala	Gly	Glu	Arg	Leu	Ser	Glu	Glu	Pro	Leu	Gln	Val	Leu	Glu	His	115	120	125	
Pro	Pro	Gln	Glu	Gln	Ile	Ala	Leu	Leu	Ala	Pro	Glu	Pro	Leu	Leu	Val	130	135	140	
Gly	Leu	Pro	Tyr	Thr	Val	Val	Ile	His	Tyr	Ala	Gly	Asn	Leu	Ser	Glu	145	150	155	160
Thr	Phe	His	Gly	Phe	Tyr	Lys	Ser	Thr	Tyr	Arg	Thr	Lys	Glu	Gly	Glu	165	170	175	
Leu	Arg	Ile	Leu	Ala	Ser	Thr	Gln	Phe	Glu	Pro	Thr	Ala	Ala	Arg	Met	180	185	190	
Ala	Phe	Pro	Cys	Phe	Asp	Glu	Pro	Ala	Phe	Lys	Ala	Ser	Phe	Ser	Ile	195	200	205	
Lys	Ile	Arg	Arg	Glu	Pro	Arg	His	Leu	Ala	Ile	Ser	Asn	Met	Pro	Leu	210	215	220	
Val	Lys	Ser	Val	Thr	Val	Ala	Glu	Gly	Leu	Ile	Glu	Asp	His	Phe	Asp	225	230	235	240
Val	Thr	Val	Lys	Met	Ser	Thr	Tyr	Leu	Val	Ala	Phe	Ile	Ile	Ser	Asp	245	250	255	
Phe	Glu	Ser	Val	Ser	Lys	Ile	Thr	Lys	Ser	Gly	Val	Lys	Val	Ser	Val	260	265	270	
Tyr	Ala	Val	Pro	Asp	Lys	Met	Asn	Gln	Ala	Asp	Tyr	Ala	Leu	Asp	Ala	275	280	285	
Ala	Val	Thr	Leu	Leu	Glu	Phe	Tyr	Glu	Asp	Tyr	Phe	Ser	Ile	Pro	Tyr	290	295	300	
Pro	Leu	Pro	Lys	Gln	Asp	Leu	Ala	Ala	Ile	Pro	Asp	Phe	Gln	Ser	Gly	305	310	315	320
Ala	Met	Glu	Asn	Trp	Gly	Leu	Thr	Thr	Tyr	Arg	Glu	Ser	Ala	Leu	Leu	325	330	335	

## 5611

Gly Tyr Tyr Ile Val His Tyr Glu Asp Asp Gly Trp Asp Ser Leu Thr  
 610 615 620  
 Gly Leu Leu Lys Gly Thr His Thr Ala Val Ser Ser Asn Asp Arg Ala  
 625 630 635 640  
 Ser Leu Ile Asn Asn Ala Phe Gln Leu Val Ser Ile Gly Lys Leu Ser  
 645 650 655  
 Ile Glu Lys Ala Leu Asp Leu Ser Leu Tyr Leu Lys His Glu Thr Glu  
 660 665 670  
 Ile Met Pro Val Phe Gln Gly Leu Asn Glu Leu Ile Pro Met Tyr Lys  
 675 680 685  
 Leu Met Glu Lys Arg Asp Met Asn Glu Val Glu Thr Gln Phe Lys Ala  
 690 695 700  
 Phe Leu Ile Arg Leu Leu Arg Asp Leu Ile Asp Lys Gln Thr Trp Thr  
 705 710 715 720  
 Asp Glu Gly Ser Val Ser Glu Arg Met Leu Arg Ser Glu Leu Leu Leu  
 725 730 735  
 Leu Ala Cys Val His Asn Tyr Gln Pro Cys Val Gln Arg Ala Glu Gly  
 740 745 750  
 Tyr Phe Arg Lys Trp Lys Glu Ser Asn Gly Asn Leu Ser Leu Pro Val  
 755 760 765  
 Asp Val Thr Leu Ala Val Phe Ala Val Gly Ala Gln Ser Thr Glu Gly  
 770 775 780  
 Trp Asp Phe Leu Tyr Ser Lys Tyr Gln Phe Ser Leu Ser Ser Thr Glu  
 785 790 795 800  
 Lys Ser Gln Ile Glu Phe Ala Leu Cys Arg Thr Gln Asn Lys Glu Lys  
 805 810 815  
 Leu Gln Trp Leu Leu Asp Glu Ser Phe Lys Gly Asp Lys Ile Lys Thr  
 820 825 830  
 Gln Glu Phe Pro Gln Ile Leu Thr Leu Ile Gly Arg Asn Pro Val Gly  
 835 840 845  
 Tyr Pro Leu Ala Trp Gln Phe Leu Arg Lys Asn Trp Asn Lys Leu Val  
 850 855 860  
 Gln Lys Phe Glu Leu Gly Ser Ser Ser Ile Ala His Met Val Met Gly  
 865 870 875 880

## 5612

Thr Thr Asn Gln Phe Ser Thr Arg Thr Arg Leu Glu Glu Val Lys Gly  
                   885                  890                  895

Phe Phe Ser Ser Leu Lys Glu Asn Gly Ser Gln Leu Arg Cys Val Gln  
                   900                  905                  910

Gln Thr Ile Glu Thr Ile Glu Glu Asn Ile Gly Trp Met Asp Lys Asn  
                   915                  920                  925

Phe Asp Lys Ile Arg Val Trp Leu Gln Ser Glu Lys Leu Glu Arg Met  
                   930                  935                  940

&lt;210&gt; 6372

&lt;211&gt; 377

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (127)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6372

Val Arg Asn Gly Ser Phe Cys Ser Pro Gly Ser Glu Pro Pro Gly Ala  
   1                  5                  10                  15

Ala Arg Gly Leu Ala Ala Pro Arg Pro Arg Cys Pro Pro Gly Val Pro  
                   20                  25                  30

Leu Leu Arg Ala Pro Ala Ala Gly Cys Gln Leu Phe Gly Ala Pro Ser  
                   35                  40                  45

Arg Thr Gln Arg Arg Glu Arg Ala Arg Asp Lys Leu Glu Leu Arg Pro  
                   50                  55                  60

Pro Arg Pro Ser Pro Ala Pro Leu Pro Leu Pro Pro Arg Gly Arg Ala  
   65                  70                  75                  80

Pro Thr Met Leu Gln Gly Pro Gly Ser Leu Leu Leu Leu Phe Leu Ala  
                   85                  90                  95

Ser His Cys Cys Leu Gly Ser Ala Arg Gly Leu Phe Leu Phe Gly Gln  
                   100                  105                  110

Pro Asp Phe Ser Tyr Lys Arg Ser Asn Cys Lys Pro Ile Pro Xaa Asn



## 5613

115		120		125
Leu Gln Leu Cys His Gly Ile Glu Tyr Gln Asn Met Arg Leu Pro Asn				
130		135		140
Leu Leu Gly His Glu Thr Met Lys Glu Val Leu Glu Gln Ala Gly Ala				
145		150		155
				160
Trp Ile Pro Leu Val Met Lys Gln Cys His Pro Asp Thr Lys Lys Phe				
		165		170
				175
Leu Cys Ser Leu Phe Ala Pro Val Cys Leu Asp Asp Leu Asp Glu Thr				
		180		185
				190
Ile Gln Pro Cys His Ser Leu Cys Val Gln Val Lys Asp Arg Cys Ala				
		195		200
				205
Pro Val Met Ser Ala Phe Gly Phe Pro Trp Pro Asp Met Leu Glu Cys				
		210		215
				220
Asp Arg Phe Pro Gln Asp Asn Asp Leu Cys Ile Pro Leu Ala Ser Ser				
		225		230
				235
				240
Asp His Leu Leu Pro Ala Thr Glu Glu Ala Pro Lys Val Cys Glu Ala				
		245		250
				255
Cys Lys Asn Lys Asn Asp Asp Asp Asn Asp Ile Met Glu Thr Leu Cys				
		260		265
				270
Lys Asn Asp Phe Ala Leu Lys Ile Lys Val Lys Glu Ile Thr Tyr Ile				
		275		280
				285
Asn Arg Asp Thr Lys Ile Ile Leu Glu Thr Lys Ser Lys Thr Ile Tyr				
		290		295
				300
Lys Leu Asn Gly Val Ser Glu Arg Asp Leu Lys Lys Ser Val Leu Trp				
		305		310
				315
				320
Leu Lys Asp Ser Leu Gln Cys Thr Cys Glu Glu Met Asn Asp Ile Asn				
		325		330
				335
Ala Pro Tyr Leu Val Met Gly Gln Lys Gln Gly Gly Glu Leu Val Ile				
		340		345
				350
Thr Ser Val Lys Arg Trp Gln Lys Gly Gln Arg Glu Phe Lys Arg Ile				
		355		360
				365
Ser Arg Ser Ile Arg Lys Leu Gln Cys				
		370		375

5614

&lt;210&gt; 6373

&lt;211&gt; 442

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (144)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6373

His	Xaa	Pro	Arg	Leu	Pro	Ala	Leu	Pro	Pro	Arg	Leu	Leu	Ser	Pro	Ser
1				5					10					15	

Ala	Ala	Thr	Met	Ser	Ala	Ser	Ala	Val	Phe	Ile	Leu	Asp	Val	Lys	Gly
			20					25					30		

Lys	Pro	Leu	Ile	Ser	Arg	Asn	Tyr	Lys	Gly	Asp	Val	Ala	Met	Ser	Lys
		35					40					45			

Ile	Glu	His	Phe	Met	Pro	Leu	Leu	Val	Gln	Arg	Glu	Glu	Glu	Gly	Ala
	50					55					60				

Leu	Ala	Pro	Leu	Leu	Ser	His	Gly	Gln	Val	His	Phe	Leu	Trp	Ile	Lys
65					70					75					80

His	Ser	Asn	Leu	Tyr	Leu	Val	Ala	Thr	Thr	Ser	Lys	Asn	Ala	Asn	Ala
			85						90					95	

Ser	Leu	Val	Tyr	Ser	Phe	Leu	Tyr	Lys	Thr	Ile	Glu	Val	Phe	Cys	Glu
		100						105					110		

Tyr	Phe	Lys	Glu	Leu	Glu	Glu	Glu	Ser	Ile	Arg	Asp	Asn	Phe	Val	Ile
	115						120					125			

Val	Tyr	Glu	Leu	Leu	Asp	Glu	Leu	Met	Asp	Phe	Gly	Phe	Pro	Gln	Xaa
	130					135					140				

Thr	Asp	Ser	Lys	Ile	Leu	Gln	Glu	Tyr	Ile	Thr	Gln	Gln	Ser	Asn	Lys
145					150					155					160

Leu	Glu	Thr	Gly	Lys	Ser	Arg	Val	Pro	Pro	Thr	Val	Thr	Asn	Ala	Val
			165						170					175	

Ser	Trp	Arg	Ser	Glu	Gly	Ile	Lys	Tyr	Lys	Lys	Asn	Glu	Val	Phe	Ile
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

180					185					190					
Asp	Val	Ile	Glu	Ser	Val	Asn	Leu	Leu	Val	Asn	Ala	Asn	Gly	Ser	Val
	195						200					205			
Leu	Leu	Ser	Glu	Ile	Val	Gly	Thr	Ile	Lys	Leu	Lys	Val	Phe	Leu	Ser
	210					215					220				
Gly	Met	Pro	Glu	Leu	Arg	Leu	Gly	Leu	Asn	Asp	Arg	Val	Leu	Phe	Glu
225					230					235					240
Leu	Thr	Gly	Arg	Ser	Lys	Asn	Lys	Ser	Val	Glu	Leu	Glu	Asp	Val	Lys
				245					250					255	
Phe	His	Gln	Cys	Val	Arg	Leu	Ser	Arg	Phe	Asp	Asn	Asp	Arg	Thr	Ile
			260					265					270		
Ser	Phe	Ile	Pro	Pro	Asp	Gly	Asp	Phe	Glu	Leu	Met	Ser	Tyr	Arg	Leu
		275					280					285			
Ser	Thr	Gln	Val	Lys	Pro	Leu	Ile	Trp	Ile	Glu	Ser	Val	Ile	Glu	Lys
	290					295					300				
Phe	Ser	His	Ser	Arg	Val	Glu	Ile	Met	Val	Lys	Ala	Lys	Gly	Gln	Phe
305					310					315					320
Lys	Lys	Gln	Ser	Val	Ala	Asn	Gly	Val	Glu	Ile	Ser	Val	Pro	Val	Pro
				325					330					335	
Ser	Asp	Ala	Asp	Ser	Pro	Arg	Phe	Lys	Thr	Ser	Val	Gly	Ser	Ala	Lys
			340					345					350		
Tyr	Val	Pro	Glu	Arg	Asn	Val	Val	Ile	Trp	Ser	Ile	Lys	Ser	Phe	Pro
	355						360					365			
Gly	Gly	Lys	Glu	Tyr	Leu	Met	Arg	Ala	His	Phe	Gly	Leu	Pro	Ser	Val
	370					375					380				
Glu	Lys	Glu	Glu	Val	Glu	Gly	Arg	Pro	Pro	Ile	Gly	Val	Lys	Phe	Glu
385					390					395					400
Ile	Pro	Tyr	Phe	Thr	Val	Ser	Gly	Ile	Gln	Val	Arg	Tyr	Met	Lys	Ile
				405					410					415	
Ile	Glu	Lys	Ser	Gly	Tyr	Gln	Ala	Leu	Pro	Trp	Val	Arg	Tyr	Ile	Thr
			420					425					430		
Gln	Ser	Gly	Asp	Tyr	Gln	Leu	Arg	Thr	Ser						
		435					440								

## 5617

Pro Pro Gly Glu Leu Gly Pro Asp Gly Pro Asp Gly Pro Glu Glu Lys  
                           245                          250                          255

Gly Arg Asp Arg Asp Arg Glu Arg Arg Arg Ser His Arg Ser Glu Arg  
                           260                          265                          270

Glu Arg Arg Arg Asp Arg Asp Arg Asp Arg Asp Arg Asp Arg Glu His  
                           275                          280                          285

Lys Arg Gly Glu Arg Gly Ser Glu Arg Gly Arg Asp Glu Ala Arg Gly  
                           290                          295                          300

Gly Gly Gly Gly Gln Asp Asn Gly Leu Glu Gly Leu Gly Asn Asp Ser  
 305  310                          315                          320

Arg Asp Met Tyr Met Glu Ser Glu Gly Gly Asp Gly Tyr Leu Ala Pro  
                           325                          330                          335

Glu Asn Gly Tyr Leu Met Glu Ala Ala Pro Glu  
                           340                          345

&lt;210&gt; 6375

&lt;211&gt; 410

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6375

Tyr Arg Ser Thr Leu Gln Tyr Arg Ser Gly Ile Pro Gly Arg Pro Thr  
   1                          5                          10                          15

Xaa Arg Leu Ala Ser Pro Phe Arg Pro Val Pro Met Glu Ala Leu Gly  
                           20                          25                          30

Lys Leu Lys Gln Phe Asp Ala Tyr Pro Lys Thr Leu Glu Asp Phe Arg  
                           35                          40                          45

Val Lys Thr Cys Gly Gly Ala Thr Val Thr Ile Val Ser Gly Leu Leu  
                           50                          55                          60

Met Leu Leu Leu Phe Leu Ser Glu Leu Gln Tyr Tyr Leu Thr Thr Glu  
   65                          70                          75                          80

Val His Pro Glu Leu Tyr Val Asp Lys Ser Arg Gly Asp Lys Leu Lys

5618

85					90					95						
Ile	Asn	Ile	Asp	Val	Leu	Phe	Pro	His	Met	Pro	Cys	Ala	Tyr	Leu	Ser	
100					105					110						
Ile	Asp	Ala	Met	Asp	Val	Ala	Gly	Glu	Gln	Gln	Leu	Asp	Val	Glu	His	
115					120					125						
Asn	Leu	Phe	Lys	Gln	Arg	Leu	Asp	Lys	Asp	Gly	Ile	Pro	Val	Ser	Ser	
130					135					140						
Glu	Ala	Glu	Arg	His	Glu	Leu	Gly	Lys	Val	Glu	Val	Thr	Val	Phe	Asp	
145					150					155					160	
Pro	Asp	Ser	Leu	Asp	Pro	Asp	Arg	Cys	Glu	Ser	Cys	Tyr	Gly	Ala	Glu	
165					170					175						
Ala	Glu	Asp	Ile	Lys	Cys	Cys	Asn	Thr	Cys	Glu	Asp	Val	Arg	Glu	Ala	
180					185					190						
Tyr	Arg	Arg	Arg	Gly	Trp	Ala	Phe	Lys	Asn	Pro	Asp	Thr	Ile	Glu	Gln	
195					200					205						
Cys	Arg	Arg	Glu	Gly	Phe	Ser	Gln	Lys	Met	Gln	Glu	Gln	Lys	Asn	Glu	
210					215					220						
Gly	Cys	Gln	Val	Tyr	Gly	Phe	Leu	Glu	Val	Asn	Lys	Val	Ala	Gly	Asn	
225					230					235					240	
Phe	His	Phe	Ala	Pro	Gly	Lys	Ser	Phe	Gln	Gln	Ser	His	Val	His	Val	
245					250					255						
His	Asp	Leu	Gln	Ser	Phe	Gly	Leu	Asp	Asn	Ile	Asn	Met	Thr	His	Tyr	
260					265					270						
Ile	Gln	His	Leu	Ser	Phe	Gly	Glu	Asp	Tyr	Pro	Gly	Ile	Val	Asn	Pro	
275					280					285						
Leu	Asp	His	Thr	Asn	Val	Thr	Ala	Pro	Gln	Ala	Ser	Met	Met	Phe	Gln	
290					295					300						
Tyr	Phe	Val	Lys	Val	Val	Pro	Thr	Val	Tyr	Met	Lys	Val	Asp	Gly	Glu	
305					310					315					320	
Val	Leu	Arg	Thr	Asn	Gln	Phe	Ser	Val	Thr	Arg	His	Glu	Lys	Val	Ala	
325					330					335						
Asn	Gly	Leu	Leu	Gly	Asp	Gln	Gly	Leu	Pro	Gly	Val	Phe	Val	Leu	Tyr	
340					345					350						
Glu	Leu	Ser	Pro	Met	Met	Val	Lys	Leu	Thr	Glu	Lys	His	Arg	Ser	Phe	

## 5619

355                      360                      365  
 Thr His Phe Leu Thr Gly Val Cys Ala Ile Ile Gly Gly Met Phe Thr  
 370                      375                      380  
 Val Ala Gly Leu Ile Asp Ser Leu Ile Tyr His Ser Ala Arg Ala Ile  
 385                      390                      395                      400  
 Gln Lys Lys Ile Asp Leu Gly Lys Thr Thr  
                     405                      410

&lt;210&gt; 6376

&lt;211&gt; 539

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6376

Ile Xaa Ile Phe Thr Gln Xaa Xaa Ala Met Xaa Met Ile Thr Pro Ser  
 1                      5                      10                      15

Phe Asn Thr Thr His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg  
                     20                      25                      30

Ser Gly Ile Pro Gly Ser Thr His Ala Ser Ala Ser Thr Thr Val Pro  
                     35                      40                      45

Gly Leu Ser Glu Glu Ser Thr Thr Phe Tyr Ser Ser Pro Gly Ser Thr  
 50                      55                      60

## 5620

Glu Thr Thr Ala Phe Ser His Ser Asn Thr Met Ser Ile His Ser Gln  
 65 70 75 80  
 Gln Ser Thr Pro Phe Pro Asp Ser Pro Gly Phe Thr His Thr Val Leu  
 85 90 95  
 Pro Ala Thr Leu Thr Thr Thr Asp Ile Gly Gln Glu Ser Thr Ala Phe  
 100 105 110  
 His Ser Ser Ser Asp Ala Thr Gly Thr Thr Pro Leu Pro Ala Arg Ser  
 115 120 125  
 Thr Ala Ser Asp Leu Val Gly Glu Pro Thr Thr Phe Tyr Ile Ser Pro  
 130 135 140  
 Ser Pro Thr Tyr Thr Thr Leu Phe Pro Ala Ser Ser Ser Thr Ser Gly  
 145 150 155 160  
 Leu Thr Glu Glu Ser Thr Thr Phe His Thr Ser Pro Ser Phe Thr Ser  
 165 170 175  
 Thr Ile Val Ser Thr Glu Ser Leu Glu Thr Leu Ala Pro Gly Leu Cys  
 180 185 190  
 Gln Glu Gly Gln Ile Trp Asn Gly Lys Gln Cys Val Cys Pro Gln Gly  
 195 200 205  
 Tyr Val Gly Tyr Gln Cys Leu Ser Pro Leu Glu Ser Phe Pro Val Glu  
 210 215 220  
 Thr Pro Glu Lys Leu Asn Ala Thr Leu Gly Met Thr Val Lys Val Thr  
 225 230 235 240  
 Tyr Arg Asn Phe Thr Glu Lys Met Asn Asp Ala Ser Ser Gln Glu Tyr  
 245 250 255  
 Gln Asn Phe Ser Thr Leu Phe Lys Asn Arg Met Asp Val Val Leu Lys  
 260 265 270  
 Gly Asp Asn Leu Pro Gln Tyr Arg Gly Val Asn Ile Arg Arg Leu Leu  
 275 280 285  
 Asn Gly Ser Ile Val Val Lys Asn Asp Val Ile Leu Glu Ala Asp Tyr  
 290 295 300  
 Thr Leu Glu Tyr Glu Glu Leu Phe Glu Asn Leu Ala Glu Ile Val Lys  
 305 310 315 320  
 Ala Lys Ile Met Asn Glu Thr Arg Thr Thr Leu Leu Asp Pro Asp Ser  
 325 330 335

## 5621

Cys Arg Lys Ala Ile Leu Cys Tyr Ser Glu Glu Asp Thr Phe Val Asp  
 340 345 350  
 Ser Ser Val Thr Pro Gly Phe Asp Phe Gln Glu Gln Cys Thr Gln Lys  
 355 360 365  
 Ala Ala Glu Gly Tyr Thr Gln Phe Tyr Tyr Val Asp Val Leu Asp Gly  
 370 375 380  
 Lys Leu Ala Cys Val Asn Lys Cys Thr Lys Gly Thr Lys Ser Gln Met  
 385 390 395 400  
 Asn Cys Asn Leu Gly Thr Cys Gln Leu Gln Arg Ser Gly Pro Arg Cys  
 405 410 415  
 Leu Cys Pro Asn Thr Asn Thr His Trp Tyr Trp Gly Glu Thr Cys Glu  
 420 425 430  
 Phe Asn Ile Ala Lys Ser Leu Val Tyr Gly Ile Val Gly Ala Val Met  
 435 440 445  
 Ala Val Leu Leu Leu Ala Leu Ile Ile Leu Ile Ile Leu Phe Ser Leu  
 450 455 460  
 Ser Gln Arg Lys Arg His Arg Glu Gln Tyr Asp Val Pro Gln Glu Trp  
 465 470 475 480  
 Arg Lys Glu Gly Thr Pro Gly Ile Phe Gln Lys Thr Ala Ile Trp Glu  
 485 490 495  
 Asp Gln Asn Leu Arg Glu Ser Arg Phe Gly Leu Glu Asn Ala Tyr Asn  
 500 505 510  
 Asn Phe Arg Pro Thr Leu Glu Thr Val Asp Ser Gly Thr Glu Leu His  
 515 520 525  
 Ile Gln Arg Pro Glu Met Val Ala Ser Thr Val  
 530 535

&lt;210&gt; 6377

&lt;211&gt; 365

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6377

Gly Arg Val Gly Ser Pro Gly Gly Cys Pro Trp Val Leu Pro Ser Leu  
 1 5 10 15

Pro Asp Thr Gln Thr Asp Leu Asp Arg Pro Pro Gly Arg Ser Arg Thr



## 5622

	20		25		30														
Gly	Arg	Pro	Asp	Ala	Ala	Met	Ala	Glu	Leu	Pro	Gly	Pro	Phe	Leu	Cys				
	35						40				45								
Gly	Ala	Leu	Leu	Gly	Phe	Leu	Cys	Leu	Ser	Gly	Leu	Ala	Val	Glu	Val				
	50					55				60									
Lys	Val	Pro	Thr	Glu	Pro	Leu	Ser	Thr	Pro	Leu	Gly	Lys	Thr	Ala	Glu				
	65				70				75						80				
Leu	Thr	Cys	Thr	Tyr	Ser	Thr	Ser	Val	Gly	Asp	Ser	Phe	Ala	Leu	Glu				
				85					90					95					
Trp	Ser	Phe	Val	Gln	Pro	Gly	Lys	Pro	Ile	Ser	Glu	Ser	His	Pro	Ile				
			100					105					110						
Leu	Tyr	Phe	Thr	Asn	Gly	His	Leu	Tyr	Pro	Thr	Gly	Ser	Lys	Ser	Lys				
	115						120					125							
Arg	Val	Ser	Leu	Leu	Gln	Asn	Pro	Pro	Thr	Val	Gly	Val	Ala	Thr	Leu				
	130					135					140								
Lys	Leu	Thr	Asp	Val	His	Pro	Ser	Asp	Thr	Gly	Thr	Tyr	Leu	Cys	Gln				
	145				150					155					160				
Val	Asn	Asn	Pro	Pro	Asp	Phe	Tyr	Thr	Asn	Gly	Leu	Gly	Leu	Ile	Asn				
				165					170					175					
Leu	Thr	Val	Leu	Val	Pro	Pro	Ser	Asn	Pro	Leu	Cys	Ser	Gln	Ser	Gly				
		180						185					190						
Gln	Thr	Ser	Val	Gly	Gly	Ser	Thr	Ala	Leu	Arg	Cys	Ser	Ser	Ser	Glu				
	195						200					205							
Gly	Ala	Pro	Lys	Pro	Val	Tyr	Asn	Trp	Val	Arg	Leu	Gly	Thr	Phe	Pro				
	210					215				220									
Thr	Pro	Ser	Pro	Gly	Ser	Met	Val	Gln	Asp	Glu	Val	Ser	Gly	Gln	Leu				
	225				230					235					240				
Ile	Leu	Thr	Asn	Leu	Ser	Leu	Thr	Ser	Ser	Gly	Thr	Tyr	Arg	Cys	Val				
			245						250					255					
Ala	Thr	Asn	Gln	Met	Gly	Ser	Ala	Ser	Cys	Glu	Leu	Thr	Leu	Ser	Val				
		260						265					270						
Thr	Glu	Pro	Ser	Gln	Gly	Arg	Val	Ala	Gly	Ala	Leu	Ile	Gly	Val	Leu				
	275						280					285							
Leu	Gly	Val	Leu	Leu	Leu	Ser	Val	Ala	Ala	Phe	Cys	Leu	Val	Arg	Phe				

## 5623

290                      295                      300  
 Gln Lys Glu Arg Gly Lys Lys Pro Lys Glu Thr Tyr Gly Gly Ser Asp  
 305                      310                      315                      320  
 Leu Arg Glu Asp Ala Ile Ala Pro Gly Ile Ser Glu His Thr Cys Met  
                     325                      330                      335  
 Arg Ala Asp Ser Ser Lys Gly Phe Leu Glu Arg Pro Ser Ser Ala Ser  
                     340                      345                      350  
 Thr Val Thr Thr Thr Lys Ser Lys Leu Pro Met Val Val  
                     355                      360                      365  
  
 <210> 6378  
 <211> 869  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (14)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 6378  
 Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Val Thr Xaa Ala Ser  
   1                      5                      10                      15  
 Leu Tyr Leu Phe Glu Ala Thr Gly Lys Arg Phe Tyr Phe Lys Asn Val  
                     20                      25                      30  
 Ala Ile Leu Ile Pro Glu Thr Trp Lys Thr Lys Ala Asp Tyr Val Arg  
                     35                      40                      45  
 Pro Lys Leu Glu Thr Tyr Lys Asn Ala Asp Val Leu Val Ala Glu Ser  
                     50                      55                      60  
 Thr Pro Pro Gly Asn Asp Glu Pro Tyr Thr Glu Gln Met Gly Asn Cys  
   65                      70                      75                      80  
 Gly Glu Lys Gly Glu Arg Ile His Leu Thr Pro Asp Phe Ile Ala Gly  
                     85                      90                      95  
 Lys Lys Leu Ala Glu Tyr Gly Pro Gln Gly Arg Ala Phe Val His Glu  
                     100                      105                      110  
 Trp Ala His Leu Arg Trp Gly Val Phe Asp Glu Tyr Asn Asn Asp Glu  
                     115                      120                      125

## 5624

Lys Phe Tyr Leu Ser Asn Gly Arg Ile Gln Ala Val Arg Cys Ser Ala  
 130 135 140  
 Gly Ile Thr Gly Thr Asn Val Val Lys Lys Cys Gln Gly Gly Ser Cys  
 145 150 155 160  
 Tyr Thr Lys Arg Cys Thr Phe Asn Lys Val Thr Gly Leu Tyr Glu Lys  
 165 170 175  
 Gly Cys Glu Phe Val Leu Gln Ser Arg Gln Thr Glu Lys Ala Ser Ile  
 180 185 190  
 Met Phe Ala Gln His Val Asp Ser Ile Val Glu Phe Cys Thr Glu Gln  
 195 200 205  
 Asn His Asn Lys Glu Ala Pro Asn Lys Gln Asn Gln Lys Cys Asn Leu  
 210 215 220  
 Arg Ser Thr Trp Glu Val Ile Arg Asp Ser Glu Asp Phe Lys Lys Thr  
 225 230 235 240  
 Thr Pro Met Thr Thr Gln Pro Pro Asn Pro Thr Phe Ser Leu Leu Gln  
 245 250 255  
 Ile Gly Gln Arg Ile Val Cys Leu Val Leu Asp Lys Ser Gly Ser Met  
 260 265 270  
 Ala Thr Gly Asn Arg Leu Asn Arg Leu Asn Gln Ala Gly Gln Leu Phe  
 275 280 285  
 Leu Leu Gln Thr Val Glu Leu Gly Ser Trp Val Gly Met Val Thr Phe  
 290 295 300  
 Asp Ser Ala Ala His Val Gln Ser Glu Leu Ile Gln Ile Asn Ser Gly  
 305 310 315 320  
 Ser Asp Arg Asp Thr Leu Ala Lys Arg Leu Pro Ala Ala Ala Ser Gly  
 325 330 335  
 Gly Thr Ser Ile Cys Ser Gly Leu Arg Ser Ala Phe Thr Val Ile Arg  
 340 345 350  
 Lys Lys Tyr Pro Thr Asp Gly Ser Glu Ile Val Leu Leu Thr Asp Gly  
 355 360 365  
 Glu Asp Asn Thr Ile Ser Gly Cys Phe Asn Glu Val Lys Gln Ser Gly  
 370 375 380  
 Ala Ile Ile His Thr Val Ala Leu Gly Pro Ser Ala Ala Gln Glu Leu  
 385 390 395 400

## 5625

Glu Glu Leu Ser Lys Met Thr Gly Gly Leu Gln Thr Tyr Ala Ser Asp  
 405 410 415  
 Gln Val Gln Asn Asn Gly Leu Ile Asp Ala Phe Gly Ala Leu Ser Ser  
 420 425 430  
 Gly Asn Gly Ala Val Ser Gln Arg Ser Ile Gln Leu Glu Ser Lys Gly  
 435 440 445  
 Leu Thr Leu Gln Asn Ser Gln Trp Met Asn Gly Thr Val Ile Val Asp  
 450 455 460  
 Ser Thr Val Gly Lys Asp Thr Leu Phe Leu Ile Thr Trp Thr Thr Gln  
 465 470 475 480  
 Pro Pro Gln Ile Leu Leu Trp Asp Pro Ser Gly Gln Lys Gln Gly Gly  
 485 490 495  
 Phe Val Val Asp Lys Asn Thr Lys Met Ala Tyr Leu Gln Ile Pro Gly  
 500 505 510  
 Ile Ala Lys Val Gly Thr Trp Lys Tyr Ser Leu Gln Ala Ser Ser Gln  
 515 520 525  
 Thr Leu Thr Leu Thr Val Thr Ser Arg Ala Ser Asn Ala Thr Leu Pro  
 530 535 540  
 Pro Ile Thr Val Thr Ser Lys Thr Asn Lys Asp Thr Ser Lys Phe Pro  
 545 550 555 560  
 Ser Pro Leu Val Val Tyr Ala Asn Ile Arg Gln Gly Ala Ser Pro Ile  
 565 570 575  
 Leu Arg Ala Ser Val Thr Ala Leu Ile Glu Ser Val Asn Gly Lys Thr  
 580 585 590  
 Val Thr Leu Glu Leu Leu Asp Asn Gly Ala Gly Ala Asp Ala Thr Lys  
 595 600 605  
 Asp Asp Gly Val Tyr Ser Arg Tyr Phe Thr Thr Tyr Asp Thr Asn Gly  
 610 615 620  
 Arg Tyr Ser Val Lys Val Arg Ala Leu Gly Gly Val Asn Ala Ala Arg  
 625 630 635 640  
 Arg Arg Val Ile Pro Gln Gln Ser Gly Ala Leu Tyr Ile Pro Gly Trp  
 645 650 655  
 Ile Glu Asn Asp Glu Ile Gln Trp Asn Pro Pro Arg Pro Glu Ile Asn  
 660 665 670

## 5626

Lys Asp Asp Val Gln His Lys Gln Val Cys Phe Ser Arg Thr Ser Ser  
 675 680 685  
 Gly Gly Ser Phe Val Ala Ser Asp Val Pro Asn Ala Pro Ile Pro Asp  
 690 695 700  
 Leu Phe Pro Pro Gly Gln Ile Thr Asp Leu Lys Ala Glu Ile His Gly  
 705 710 715 720  
 Gly Ser Leu Ile Asn Leu Thr Trp Thr Ala Pro Gly Asp Asp Tyr Asp  
 725 730 735  
 His Gly Thr Ala His Lys Tyr Ile Ile Arg Ile Ser Thr Ser Ile Leu  
 740 745 750  
 Asp Leu Arg Asp Lys Phe Asn Glu Ser Leu Gln Val Asn Thr Thr Ala  
 755 760 765  
 Leu Ile Pro Lys Glu Ala Asn Ser Glu Glu Val Phe Leu Phe Lys Pro  
 770 775 780  
 Glu Asn Ile Thr Phe Glu Asn Gly Thr Asp Leu Phe Ile Ala Ile Gln  
 785 790 795 800  
 Ala Val Asp Lys Val Asp Leu Lys Ser Glu Ile Ser Asn Ile Ala Arg  
 805 810 815  
 Val Ser Leu Phe Ile Pro Pro Gln Thr Pro Pro Glu Thr Pro Ser Pro  
 820 825 830  
 Asp Glu Thr Ser Ala Pro Cys Pro Asn Ile His Ile Asn Ser Thr Ile  
 835 840 845  
 Pro Gly Ile His Ile Leu Lys Ile Met Trp Lys Trp Ile Gly Glu Leu  
 850 855 860  
 Gln Leu Ser Ile Ala  
 865

&lt;210&gt; 6379

&lt;211&gt; 275

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6379

Pro Thr Arg Pro His Ser Ser Gly Tyr Leu Pro Thr Met Ala Leu Val  
 1 5 10 15

Leu Ile Leu Gln Leu Leu Thr Leu Trp Pro Leu Cys His Thr Asp Ile

5627

[illegible]

5628

&lt;210&gt; 6380

&lt;211&gt; 708

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (53)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6380

Pro Arg Arg Leu Leu Ser Thr Ser Arg Arg Cys Ser Arg Arg Arg Arg  
 1 5 10 15

Leu Ala Val Arg Cys Gln Ala Ala Pro Ser Pro Gly Ala Arg Arg Leu  
 20 25 30

Ala Cys Arg Gly Ala Pro Gly Arg Thr Ala Arg Pro Ala Pro Pro Pro  
 35 40 45

Gly Ser Phe Gly Xaa Ala Met Gly Cys Cys Ser Ser Ala Ser Ser Ala  
 50 55 60

Ala Gln Ser Ser Lys Arg Glu Trp Lys Pro Leu Glu Asp Arg Ser Cys  
 65 70 75 80

Thr Asp Ile Pro Trp Leu Leu Leu Phe Ile Leu Phe Cys Ile Gly Met  
 85 90 95

Gly Phe Ile Cys Gly Phe Ser Ile Ala Thr Gly Ala Ala Ala Arg Leu  
 100 105 110

Val Ser Gly Tyr Asp Ser Tyr Gly Asn Ile Cys Gly Gln Lys Asn Thr  
 115 120 125

Lys Leu Glu Ala Ile Pro Asn Ser Gly Met Asp His Thr Gln Arg Lys  
 130 135 140

Tyr Val Phe Phe Leu Asp Pro Cys Asn Leu Asp Leu Ile Asn Arg Lys  
 145 150 155 160

Ile Lys Ser Val Ala Leu Cys Val Ala Ala Cys Pro Arg Gln Glu Leu  
 165 170 175

Lys Thr Leu Ser Asp Val Gln Lys Phe Ala Glu Ile Asn Gly Ser Ala  
 180 185 190

Leu Cys Ser Tyr Asn Leu Lys Pro Ser Glu Tyr Thr Thr Ser Pro Lys  
 195 200 205

## 5629

Ser Ser Val Leu Cys Pro Lys Leu Pro Val Pro Ala Ser Ala Pro Ile  
 210 215 220  
 Pro Phe Phe His Arg Cys Ala Pro Val Asn Ile Ser Cys Tyr Ala Lys  
 225 230 235 240  
 Phe Ala Glu Ala Leu Ile Thr Phe Val Ser Asp Asn Ser Val Leu His  
 245 250 255  
 Arg Leu Ile Ser Gly Val Met Thr Ser Lys Glu Ile Ile Leu Gly Leu  
 260 265 270  
 Cys Leu Leu Ser Leu Val Leu Ser Met Ile Leu Met Val Ile Ile Arg  
 275 280 285  
 Tyr Ile Ser Arg Val Leu Val Trp Ile Leu Thr Ile Leu Val Ile Leu  
 290 295 300  
 Gly Ser Leu Gly Gly Thr Gly Val Leu Trp Trp Leu Tyr Ala Lys Gln  
 305 310 315 320  
 Arg Arg Ser Pro Lys Glu Thr Val Thr Pro Glu Gln Leu Gln Ile Ala  
 325 330 335  
 Glu Asp Asn Leu Arg Ala Leu Leu Ile Tyr Ala Ile Ser Ala Thr Val  
 340 345 350  
 Phe Thr Val Ile Leu Phe Leu Ile Met Leu Val Met Arg Lys Arg Val  
 355 360 365  
 Ala Leu Thr Ile Ala Leu Phe His Val Ala Gly Lys Val Phe Ile His  
 370 375 380  
 Leu Pro Leu Leu Val Phe Gln Pro Phe Trp Thr Phe Phe Ala Leu Val  
 385 390 395 400  
 Leu Phe Trp Val Tyr Trp Ile Met Thr Leu Leu Phe Leu Gly Thr Thr  
 405 410 415  
 Gly Ser Pro Val Gln Asn Glu Gln Gly Phe Val Glu Phe Lys Ile Ser  
 420 425 430  
 Gly Pro Leu Gln Tyr Met Trp Trp Tyr His Val Val Gly Leu Ile Trp  
 435 440 445  
 Ile Ser Glu Phe Ile Leu Ala Cys Gln Gln Met Thr Val Ala Gly Ala  
 450 455 460  
 Val Val Thr Tyr Tyr Phe Thr Arg Asp Lys Arg Asn Leu Pro Phe Thr  
 465 470 475 480



## 5630

Pro Ile Leu Ala Ser Val Asn Arg Leu Ile Arg Tyr His Leu Gly Thr  
                           485                          490                          495  
  
 Val Ala Lys Gly Ser Phe Ile Ile Thr Leu Val Lys Ile Pro Arg Met  
                           500                          505                          510  
  
 Ile Leu Met Tyr Ile His Ser Gln Leu Lys Gly Lys Glu Asn Ala Cys  
                           515                          520                          525  
  
 Ala Arg Cys Val Leu Lys Ser Cys Ile Cys Cys Leu Trp Cys Leu Glu  
                           530                          535                          540  
  
 Lys Cys Leu Asn Tyr Leu Asn Gln Asn Ala Tyr Thr Ala Thr Ala Ile  
 545                          550                          555                          560  
  
 Asn Ser Thr Asn Phe Cys Thr Ser Ala Lys Asp Ala Phe Val Ile Leu  
                           565                          570                          575  
  
 Val Glu Asn Ala Leu Arg Val Ala Thr Ile Asn Thr Val Gly Asp Phe  
                           580                          585                          590  
  
 Met Leu Phe Leu Gly Lys Val Leu Ile Val Cys Ser Thr Gly Leu Ala  
                           595                          600                          605  
  
 Gly Ile Met Leu Leu Asn Tyr Gln Gln Asp Tyr Thr Val Trp Val Leu  
                           610                          615                          620  
  
 Pro Leu Ile Ile Val Cys Leu Phe Ala Phe Leu Val Ala His Cys Phe  
 625                          630                          635                          640  
  
 Leu Ser Ile Tyr Glu Met Val Val Asp Val Leu Phe Leu Cys Phe Ala  
                           645                          650                          655  
  
 Ile Asp Thr Lys Tyr Asn Asp Gly Ser Pro Gly Arg Glu Phe Tyr Met  
                           660                          665                          670  
  
 Asp Lys Val Leu Met Glu Phe Val Glu Asn Ser Arg Lys Ala Met Lys  
                           675                          680                          685  
  
 Glu Ala Gly Lys Gly Gly Val Ala Asp Ser Arg Glu Leu Lys Pro Met  
                           690                          695                          700  
  
 Leu Lys Lys Arg  
 705

&lt;210&gt; 6381

&lt;211&gt; 625

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

## 5631

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (105)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (222)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (231)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (278)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (279)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (440)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6381

Ala	Val	Arg	Leu	Pro	Ala	Ala	Tyr	Ile	Lys	Ala	Pro	Gly	His	Ala	Glu
1				5					10					15	

Pro	Ser	Ser	Arg	Thr	Arg	Pro	Thr	Thr	Met	Arg	Ser	Cys	Leu	Trp	Arg
			20					25					30		

Cys	Arg	His	Leu	Ser	Gln	Gly	Val	Gln	Trp	Ser	Leu	Leu	Leu	Ala	Val
		35					40					45			

Leu	Val	Phe	Phe	Leu	Phe	Ala	Leu	Pro	Ser	Phe	Ile	Lys	Glu	Pro	Gln
	50					55					60				

Thr	Lys	Pro	Ser	Arg	His	Gln	Arg	Thr	Glu	Asn	Ile	Lys	Glu	Arg	Ser
65					70					75					80

Leu	Gln	Ser	Leu	Ala	Lys	Pro	Lys	Ser	Gln	Ala	Pro	Thr	Arg	Ala	Arg
				85					90					95	

Arg	Thr	Thr	Ile	Tyr	Ala	Glu	Pro	Xaa	Pro	Glu	Asn	Asn	Ala	Leu	Asn
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

## 5632

100	105	110
Thr Gln Thr Gln Pro Lys Ala His Thr Thr Gly Asp Arg Gly Lys Glu		
115	120	125
Ala Asn Gln Ala Pro Pro Glu Glu Gln Asp Lys Val Pro His Thr Ala		
130	135	140
Gln Arg Ala Ala Trp Lys Ser Pro Glu Lys Glu Lys Thr Met Val Asn		
145	150	155
Thr Leu Ser Pro Arg Gly Gln Asp Ala Gly Met Ala Ser Gly Arg Thr		
	165	170
		175
Glu Ala Gln Ser Trp Lys Ser Gln Asp Thr Lys Thr Thr Gln Gly Asn		
	180	185
		190
Gly Gly Gln Thr Arg Lys Leu Thr Ala Ser Arg Thr Val Ser Glu Lys		
	195	200
		205
His Gln Gly Lys Ala Ala Thr Thr Ala Lys Thr Leu Ile Xaa Lys Ser		
	210	215
		220
Gln His Arg Met Leu Ala Xaa Thr Gly Ala Val Ser Thr Arg Thr Arg		
225	230	235
		240
Gln Lys Gly Val Thr Thr Ala Val Ile Pro Pro Lys Glu Lys Lys Pro		
	245	250
		255
Gln Ala Thr Pro Pro Pro Ala Pro Phe Gln Ser Pro Thr Thr Gln Arg		
	260	265
		270
Asn Gln Arg Leu Lys Xaa Xaa Asn Phe Lys Ser Glu Pro Arg Trp Asp		
	275	280
		285
Phe Glu Glu Lys Tyr Ser Phe Glu Ile Gly Gly Leu Gln Thr Thr Cys		
	290	295
		300
Pro Asp Ser Val Lys Ile Lys Ala Ser Lys Ser Leu Trp Leu Gln Lys		
305	310	315
		320
Leu Phe Leu Pro Asn Leu Thr Leu Phe Leu Asp Ser Arg His Phe Asn		
	325	330
		335
Gln Ser Glu Trp Asp Arg Leu Glu His Phe Ala Pro Pro Phe Gly Phe		
	340	345
		350
Met Glu Leu Asn Tyr Ser Leu Val Gln Lys Val Val Thr Arg Phe Pro		
	355	360
		365
Pro Val Pro Gln Gln Gln Leu Leu Leu Ala Ser Leu Pro Ala Gly Ser		

## 5633

370		375		380
Leu Arg Cys Ile Thr Cys Ala Val Val Gly Asn Gly Gly Ile Leu Asn				
385		390		395 400
Asn Ser His Met Gly Gln Glu Ile Asp Ser His Asp Tyr Val Phe Arg				
	405		410	415
Leu Ser Gly Ala Leu Ile Lys Gly Tyr Glu Gln Asp Val Gly Thr Arg				
	420		425	430
Thr Ser Phe Tyr Gly Phe Thr Xaa Phe Ser Leu Thr Gln Ser Leu Leu				
	435		440	445
Ile Leu Gly Asn Arg Gly Phe Lys Asn Val Pro Leu Gly Lys Asp Val				
	450		455	460
Arg Tyr Leu His Phe Leu Glu Gly Thr Arg Asp Tyr Glu Trp Leu Glu				
465		470		475 480
Ala Leu Leu Met Asn Gln Thr Val Met Ser Lys Asn Leu Phe Trp Phe				
	485		490	495
Arg His Arg Pro Gln Glu Ala Phe Arg Glu Ala Leu His Met Asp Arg				
	500		505	510
Tyr Leu Leu Leu His Pro Asp Phe Leu Arg Tyr Met Lys Asn Arg Phe				
	515		520	525
Leu Arg Ser Lys Thr Leu Asp Gly Ala His Trp Arg Ile Tyr Arg Pro				
	530		535	540
Thr Thr Gly Ala Leu Leu Leu Leu Thr Ala Leu Gln Leu Cys Asp Gln				
545		550		555 560
Val Ser Ala Tyr Gly Phe Ile Thr Glu Gly His Glu Arg Phe Ser Asp				
	565		570	575
His Tyr Tyr Asp Thr Ser Trp Lys Arg Leu Ile Phe Tyr Ile Asn His				
	580		585	590
Asp Phe Lys Leu Glu Arg Glu Val Trp Lys Arg Leu His Asp Glu Gly				
	595		600	605
Ile Ile Arg Leu Tyr Gln Arg Pro Gly Pro Gly Thr Ala Lys Ala Lys				
	610		615	620
Asn				
625				

5634

&lt;210&gt; 6382

&lt;211&gt; 299

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6382

Gln Met Glu Lys Lys Glu Cys Pro Glu Lys Ser Ser Ser Ser Glu Glu  
 1 5 10 15

Glu Leu Pro Arg Arg Val Tyr Arg Glu Leu Pro Cys Val Ser Glu Thr  
 20 25 30

Leu Cys Asp Ile Ser His Phe Phe Gln Glu Asp Asp Glu Thr Glu Ala  
 35 40 45

Glu Pro Leu Leu Phe Arg Ala Val Pro Glu Cys Gln Leu Ser Gly Gly  
 50 55 60

Asp Ile Pro Ser Val Ser Glu Glu Gln Glu Ser Ser Glu Gly Gln Asp  
 65 70 75 80

Ser Gly Asp Ile Cys Ser Glu Glu Asn Gln Ile Val Ser Ser Tyr Ala  
 85 90 95

Ser Lys Val Cys Phe Glu Ile Glu Glu Asp Tyr Lys Asn Arg Gln Phe  
 100 105 110

Leu Gly Pro Glu Gly Asn Val Asp Val Glu Leu Ile Asp Lys Ser Thr  
 115 120 125

Asn Arg Tyr Ser Val Trp Phe Pro Thr Ala Gly Trp Tyr Leu Trp Ser  
 130 135 140

Ala Thr Gly Leu Gly Phe Leu Val Arg Asp Glu Val Thr Val Thr Ile  
 145 150 155 160

Ala Phe Gly Ser Trp Ser Gln His Leu Ala Leu Asp Leu Gln His His  
 165 170 175

Glu Gln Trp Leu Val Gly Gly Pro Leu Phe Asp Val Thr Ala Glu Pro  
 180 185 190

Glu Glu Ala Val Ala Glu Ile His Leu Pro His Phe Ile Ser Leu Gln  
 195 200 205

Ala Gly Glu Val Asp Val Ser Trp Phe Leu Val Ala His Phe Lys Asn  
 210 215 220

Glu Gly Met Val Leu Glu His Pro Ala Arg Val Glu Pro Phe Tyr Ala  
 225 230 235 240

## 5635

Val Leu Glu Ser Pro Ser Phe Ser Leu Met Gly Ile Leu Leu Arg Ile  
                           245                          250                          255

Ala Ser Gly Thr Arg Leu Ser Ile Pro Ile Thr Ser Asn Thr Leu Ile  
                           260                          265                          270

Tyr Tyr His Pro His Pro Glu Asp Ile Lys Phe His Leu Tyr Leu Val  
                           275                          280                          285

Pro Ser Asp Ala Leu Leu Thr Lys Thr Leu Phe  
                           290                          295

<210> 6383

<211> 273

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (210)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6383

Glu Thr Arg Val Lys Thr Ser Leu Glu Leu Leu Arg Thr Gln Leu Glu  
   1                          5                          10                          15

Pro Thr Gly Thr Val Gly Asn Thr Ile Met Thr Ser Gln Pro Val Pro  
                           20                          25                          30

Asn Glu Thr Ile Ile Val Leu Pro Ser Asn Val Ile Asn Phe Ser Gln  
                           35                          40                          45

Ala Glu Lys Pro Glu Pro Thr Asn Gln Gly Gln Asp Ser Leu Lys Lys  
                           50                          55                          60

His Leu His Ala Glu Ile Lys Val Ile Gly Thr Ile Gln Ile Leu Cys  
   65                          70                          75                          80

Gly Met Met Val Leu Ser Leu Gly Ile Ile Leu Ala Ser Ala Ser Phe  
                           85                          90                          95

Ser Pro Asn Phe Thr Gln Val Thr Ser Thr Leu Leu Asn Ser Ala Tyr  
                           100                          105                          110

Pro Phe Ile Gly Pro Phe Phe Phe Ile Ile Ser Gly Ser Leu Ser Ile  
                           115                          120                          125

Ala Thr Glu Lys Arg Leu Thr Lys Leu Leu Val His Ser Ser Leu Val

## 5636

130                      135                      140  
 Gly Ser Ile Leu Ser Ala Leu Ser Ala Leu Val Gly Phe Ile Ile Leu  
 145                      150                      155                      160  
 Ser Val Lys Gln Ala Thr Leu Asn Pro Ala Ser Leu Gln Cys Glu Leu  
                     165                      170                      175  
 Asp Lys Asn Asn Ile Pro Thr Arg Ser Tyr Val Ser Tyr Phe Tyr His  
                     180                      185                      190  
 Asp Ser Leu Tyr Thr Thr Asp Cys Tyr Thr Ala Lys Ala Ser Leu Ala  
                     195                      200                      205  
 Gly Xaa Leu Ser Leu Met Leu Ile Cys Thr Leu Leu Glu Phe Cys Leu  
                     210                      215                      220  
 Ala Val Leu Thr Ala Val Leu Arg Trp Lys Gln Ala Tyr Ser Asp Phe  
 225                      230                      235                      240  
 Pro Gly Ser Val Leu Phe Leu Pro His Ser Tyr Ile Gly Asn Ser Gly  
                     245                      250                      255  
 Met Ser Ser Lys Met Thr His Asp Cys Gly Tyr Glu Glu Leu Leu Thr  
                     260                      265                      270  
 Ser

&lt;210&gt; 6384

&lt;211&gt; 166

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6384

Leu His Pro Gln Gly Arg Arg Lys Met Ala Ser Arg Ser Met Arg Leu  
 1                      5                      10                      15  
 Leu Leu Leu Leu Ser Cys Leu Ala Lys Thr Gly Val Leu Gly Asp Ile  
                     20                      25                      30  
 Ile Met Arg Pro Ser Cys Ala Pro Gly Trp Phe Tyr His Lys Ser Asn  
                     35                      40                      45  
 Cys Tyr Gly Tyr Phe Arg Lys Leu Arg Asn Trp Ser Asp Ala Glu Leu  
                     50                      55                      60  
 Glu Cys Gln Ser Tyr Gly Asn Gly Ala His Leu Ala Ser Ile Leu Ser  
 65                      70                      75                      80

5637

[illegible]

<210> 6385

<211> 202

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

 $\langle 222 \rangle$  (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

&lt;221&gt; SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6385

Xaa	Pro	Gly	Arg	Thr	Ser	Xaa	Thr	Pro	His	Pro	Ser	Arg	Arg	Leu	Thr
1				5					10					15	
Gln	Gly	Arg	Trp	Val	Arg	Lys	Ser	Arg	Val	Ala	Met	Glu	Lys	Ile	Pro
			20					25					30		
Val	Ser	Ala	Phe	Leu	Leu	Leu	Val	Ala	Leu	Ser	Tyr	Thr	Leu	Ala	Arg
		35					40					45			
Asp	Thr	Thr	Val	Lys	Pro	Gly	Ala	Lys	Lys	Asp	Thr	Lys	Asp	Ser	Arg
	50					55					60				
Pro	Lys	Leu	Pro	Gln	Thr	Leu	Ser	Arg	Gly	Trp	Gly	Asp	Gln	Leu	Ile
65					70					75					80



## 5638

Trp Thr Gln Thr Tyr Glu Glu Ala Leu Tyr Lys Ser Lys Thr Ser Asn  
                     85                    90                    95  
 Lys Pro Leu Met Ile Ile His His Leu Asp Glu Cys Pro His Ser Gln  
                     100                    105                    110  
 Ala Leu Lys Lys Val Phe Ala Glu Asn Lys Glu Ile Gln Lys Leu Ala  
                     115                    120                    125  
 Glu Gln Phe Val Leu Leu Asn Leu Val Tyr Glu Thr Thr Asp Lys His  
                     130                    135                    140  
 Leu Ser Pro Asp Gly Gln Tyr Val Pro Arg Ile Met Phe Val Asp Pro  
 145                    150                    155                    160  
 Ser Leu Thr Val Arg Ala Asp Ile Thr Gly Arg Tyr Ser Asn Arg Leu  
                     165                    170                    175  
 Tyr Ala Tyr Glu Pro Ala Asp Thr Ala Leu Leu Leu Asp Asn Met Lys  
                     180                    185                    190  
 Lys Ala Leu Lys Leu Leu Lys Thr Glu Leu  
                     195                    200

&lt;210&gt; 6386

&lt;211&gt; 251

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6386

Arg Ser Gly Ser Leu Met Ala Ala Ala Ala Thr Lys Ile Leu Leu  
 1                    5                    10                    15  
 Cys Leu Pro Leu Leu Leu Leu Leu Ser Gly Trp Ser Arg Ala Gly Arg  
                     20                    25                    30  
 Ala Asp Pro His Ser Leu Cys Tyr Asp Ile Thr Val Ile Pro Lys Phe  
                     35                    40                    45  
 Arg Pro Gly Pro Arg Trp Cys Ala Val Gln Gly Gln Val Asp Glu Lys  
                     50                    55                    60  
 Thr Phe Leu His Tyr Asp Cys Gly Asn Lys Thr Val Thr Pro Val Ser  
 65                    70                    75                    80  
 Pro Leu Gly Lys Lys Leu Asn Val Thr Thr Ala Trp Lys Ala Gln Asn  
                     85                    90                    95

## 5639

Pro Val Leu Arg Glu Val Val Asp Ile Leu Thr Glu Gln Leu Arg Asp  
                   100                  105                  110  
 Ile Gln Leu Glu Asn Tyr Thr Pro Lys Glu Pro Leu Thr Leu Gln Ala  
                   115                  120                  125  
 Arg Met Ser Cys Glu Gln Lys Ala Glu Gly His Ser Ser Gly Ser Trp  
                   130                  135                  140  
 Gln Phe Ser Phe Asp Gly Gln Ile Phe Leu Leu Phe Asp Ser Glu Lys  
 145                                  150                  155                  160  
 Arg Met Trp Thr Thr Val His Pro Gly Ala Arg Lys Met Lys Glu Lys  
                                   165                  170                  175  
 Trp Glu Asn Asp Lys Val Val Ala Met Ser Phe His Tyr Phe Ser Met  
                   180                  185                  190  
 Gly Asp Cys Ile Gly Trp Leu Glu Asp Phe Leu Met Gly Met Asp Ser  
                   195                  200                  205  
 Thr Leu Glu Pro Ser Ala Gly Ala Pro Leu Ala Met Ser Ser Gly Thr  
                   210                  215                  220  
 Thr Gln Leu Arg Ala Thr Ala Thr Thr Leu Ile Leu Cys Cys Leu Leu  
 225                                  230                  235                  240  
 Ile Ile Leu Pro Cys Phe Ile Leu Pro Gly Ile  
                   245                  250

&lt;210&gt; 6387

&lt;211&gt; 241

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (205)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6387

Arg Asp Pro Pro Arg Pro Val Gln Ser Gly Leu Gly Ala Ala Gly Thr  
   1                  5                  10                  15  
 Leu Ser Trp Leu Pro Pro Pro Glu Gln Pro Val Leu Val Pro Arg Leu  
                   20                  25                  30  
 Pro Ala Pro Arg Pro Val Met Thr Leu Arg Pro Ser Leu Leu Pro Leu  
                   35                  40                  45

## 5640

His Leu Leu Leu Leu Leu Leu Leu Ser Ala Ala Val Cys Arg Ala Glu  
 50 55 60  
 Ala Gly Leu Glu Thr Glu Ser Pro Val Arg Thr Leu Gln Val Glu Thr  
 65 70 75 80  
 Leu Val Glu Pro Pro Glu Pro Cys Ala Glu Pro Ala Ala Phe Gly Asp  
 85 90 95  
 Thr Leu His Ile His Tyr Thr Gly Ser Leu Val Asp Gly Arg Ile Ile  
 100 105 110  
 Asp Thr Ser Leu Thr Arg Asp Pro Leu Val Ile Glu Leu Gly Gln Lys  
 115 120 125  
 Gln Val Ile Pro Gly Leu Glu Gln Ser Leu Leu Asp Met Cys Val Gly  
 130 135 140  
 Glu Lys Arg Arg Ala Ile Ile Pro Ser His Leu Ala Tyr Gly Lys Arg  
 145 150 155 160  
 Gly Phe Pro Pro Ser Val Pro Ala Asp Ala Val Val Gln Tyr Asp Val  
 165 170 175  
 Glu Leu Ile Ala Leu Ile Arg Ala Asn Tyr Trp Leu Lys Leu Val Lys  
 180 185 190  
 Gly Ile Leu Pro Leu Val Gly Met Ala Met Val Pro Xaa Ser Trp Ala  
 195 200 205  
 Ser Leu Gly Ile Thr Tyr Thr Glu Arg Pro Ile Asp Pro Lys Ser Pro  
 210 215 220  
 Lys Arg Ser Ser Arg Lys Arg Asn Glu Thr Arg Ala Lys Arg Asn Asn  
 225 230 235 240  
 Lys

&lt;210&gt; 6388

&lt;211&gt; 223

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6388

Gly Phe Leu Leu His Pro Val Tyr Leu Leu Arg Val Ser Phe Pro Leu  
 1 5 10 15

## 5641

Pro Thr Pro Ala Gly Gln Ser Trp Ala Pro Ala Pro Glu His Ser Arg  
                   20                  25                  30  
 Ala Ala Arg Val Ser Arg Leu Glu Thr His Asp Thr Lys Glu Ile Gln  
                   35                  40                  45  
 Val Lys Lys Tyr Lys Cys Gly Leu Ile Lys Pro Cys Pro Ala Asn Tyr  
                   50                  55                  60  
 Phe Ala Phe Lys Ile Cys Ser Gly Ala Ala Asn Val Val Gly Pro Thr  
                   65                  70                  75                  80  
 Met Cys Phe Glu Asp Arg Met Ile Met Ser Pro Val Lys Asn Asn Val  
                   85                  90                  95  
 Gly Arg Gly Leu Asn Ile Ala Leu Val Asn Gly Thr Thr Gly Ala Val  
                   100                  105                  110  
 Leu Gly Gln Lys Ala Phe Asp Met Tyr Ser Gly Asp Val Met His Leu  
                   115                  120                  125  
 Val Lys Phe Leu Lys Glu Ile Pro Gly Gly Ala Leu Val Leu Val Ala  
                   130                  135                  140  
 Ser Tyr Asp Asp Pro Gly Thr Lys Met Asn Asp Glu Ser Arg Lys Leu  
                   145                  150                  155                  160  
 Phe Ser Asp Leu Gly Ser Ser Tyr Ala Lys Gln Leu Gly Phe Arg Asp  
                   165                  170                  175  
 Ser Trp Val Phe Ile Gly Ala Lys Asp Leu Arg Gly Lys Ser Pro Phe  
                   180                  185                  190  
 Glu Gln Phe Leu Lys Asn Ser Pro Asp Thr Asn Lys Tyr Glu Gly Trp  
                   195                  200                  205  
 Pro Glu Leu Leu Glu Met Glu Gly Cys Met Pro Pro Lys Pro Phe  
                   210                  215                  220

&lt;210&gt; 6389

&lt;211&gt; 268

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6389

Pro Gly Ser Asp Val Ala Phe His Phe Asn Pro Arg Phe Asp Gly Trp  
                   1                  5                  10                  15

Asp Lys Val Val Phe Asn Thr Leu Gln Gly Gly Lys Trp Gly Ser Glu

5642

20					25					30						
Glu	Arg	Lys	Arg	Ser	Met	Pro	Phe	Lys	Lys	Gly	Ala	Ala	Phe	Glu	Leu	
35					40					45						
Val	Phe	Ile	Val	Leu	Ala	Glu	His	Tyr	Lys	Val	Val	Val	Asn	Gly	Asn	
50					55					60						
Pro	Phe	Tyr	Glu	Tyr	Gly	His	Arg	Leu	Pro	Leu	Gln	Met	Val	Thr	His	
65					70					75					80	
Leu	Gln	Val	Asp	Gly	Asp	Leu	Gln	Leu	Gln	Ser	Ile	Asn	Phe	Ile	Gly	
85					90					95						
Gly	Gln	Pro	Leu	Arg	Pro	Gln	Gly	Pro	Pro	Met	Met	Pro	Pro	Tyr	Pro	
100					105					110						
Gly	Pro	Gly	His	Cys	His	Gln	Gln	Leu	Asn	Ser	Leu	Pro	Thr	Met	Glu	
115					120					125						
Gly	Pro	Pro	Thr	Phe	Asn	Pro	Pro	Val	Pro	Tyr	Phe	Gly	Arg	Leu	Gln	
130					135					140						
Gly	Gly	Leu	Thr	Ala	Arg	Arg	Thr	Ile	Ile	Ile	Lys	Gly	Tyr	Val	Pro	
145					150					155					160	
Pro	Thr	Gly	Lys	Ser	Phe	Ala	Ile	Asn	Phe	Lys	Val	Gly	Ser	Ser	Gly	
165					170					175						
Asp	Ile	Ala	Leu	His	Ile	Asn	Pro	Arg	Met	Gly	Asn	Gly	Thr	Val	Val	
180					185					190						
Arg	Asn	Ser	Leu	Leu	Asn	Gly	Ser	Trp	Gly	Ser	Glu	Glu	Lys	Lys	Ile	
195					200					205						
Thr	His	Asn	Pro	Phe	Gly	Pro	Gly	Gln	Phe	Phe	Asp	Leu	Ser	Ile	Arg	
210					215					220						
Cys	Gly	Leu	Asp	Arg	Phe	Lys	Val	Tyr	Ala	Asn	Gly	Gln	His	Leu	Phe	
225					230					235					240	
Asp	Phe	Ala	His	Arg	Leu	Ser	Ala	Phe	Gln	Arg	Val	Asp	Thr	Leu	Glu	
245					250					255						
Ile	Gln	Gly	Asp	Val	Thr	Leu	Ser	Tyr	Val	Gln	Ile					
260					265											

<210> 6390

<211> 279

## 5643

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6390

Pro Arg Val Arg Pro Arg Val Arg Trp Thr Ala Ala Met Arg Leu Thr  
 1 5 10 15

Val Leu Cys Ala Val Cys Leu Leu Pro Gly Ser Leu Ala Leu Pro Leu  
 20 25 30

Pro Gln Glu Ala Gly Gly Met Ser Glu Leu Gln Trp Glu Gln Ala Gln  
 35 40 45

Asp Tyr Leu Lys Arg Phe Tyr Leu Tyr Asp Ser Glu Thr Lys Asn Ala  
 50 55 60

Asn Ser Leu Glu Ala Lys Leu Lys Glu Met Gln Lys Phe Phe Gly Leu  
 65 70 75 80

Pro Ile Thr Gly Met Leu Asn Ser Arg Val Ile Glu Ile Met Gln Lys  
 85 90 95

Pro Arg Cys Gly Val Pro Asp Val Ala Glu Tyr Ser Leu Phe Pro Asn  
 100 105 110

Ser Pro Lys Trp Thr Ser Lys Val Val Thr Tyr Arg Ile Val Ser Tyr  
 115 120 125

Thr Arg Asp Leu Pro His Ile Thr Val Asp Arg Leu Val Ser Lys Ala  
 130 135 140

Leu Asn Met Trp Gly Lys Glu Ile Pro Leu His Phe Arg Lys Val Val  
 145 150 155 160

Trp Gly Thr Ala Asp Ile Met Ile Gly Phe Ala Arg Gly Ala His Gly  
 165 170 175

Asp Ser Tyr Pro Phe Asp Gly Pro Gly Asn Thr Leu Ala His Ala Phe  
 180 185 190

Ala Pro Gly Thr Gly Leu Gly Gly Asp Ala His Phe Asp Glu Asp Glu  
 195 200 205

Arg Trp Thr Asp Gly Ser Ser Leu Gly Ile Asn Phe Leu Tyr Ala Ala  
 210 215 220

Thr His Glu Leu Gly His Ser Leu Gly Met Gly His Ser Ser Asp Pro  
 225 230 235 240

Asn Ala Val Met Tyr Pro Thr Tyr Gly Asn Gly Asp Pro Gln Asn Phe  
 245 250 255

5644

Lys Leu Ser Gln Asp Asp Ile Lys Gly Ile Gln Lys Leu Tyr Gly Lys  
 260 265 270

Arg Ser Asn Ser Arg Lys Lys  
 275

<210> 6391

<211> 245

<212> PRT

<213> Homo sapiens

<400> 6391

Leu Gln Phe Ser Arg Glu Glu Ala Gly Val Asp Leu Val Ser Pro Thr  
 1 5 10 15

Pro Leu Thr Pro Pro Asp Pro Gly Ala Ala Ser Ala Thr Ala Thr Ala  
 20 25 30

Pro Ala Pro Ala Ala Ala Arg Arg Gly Glu Ala Met Ala Lys Val Ser  
 35 40 45

Val Leu Asn Val Ala Val Leu Glu Asn Pro Ser Pro Phe His Ser Pro  
 50 55 60

Phe Arg Phe Glu Ile Ser Phe Glu Cys Ser Glu Ala Leu Ala Asp Asp  
 65 70 75 80

Leu Glu Trp Lys Ile Ile Tyr Val Gly Ser Ala Glu Ser Glu Glu Phe  
 85 90 95

Asp Gln Ile Leu Asp Ser Val Leu Val Gly Pro Val Pro Ala Gly Arg  
 100 105 110

His Met Phe Val Phe Gln Ala Asp Ala Pro Asn Pro Ser Leu Ile Pro  
 115 120 125

Glu Thr Asp Ala Val Gly Val Thr Val Val Leu Ile Thr Cys Thr Tyr  
 130 135 140

His Gly Gln Glu Phe Ile Arg Val Gly Tyr Tyr Val Asn Asn Glu Tyr  
 145 150 155 160

Leu Asn Pro Glu Leu Arg Glu Asn Pro Pro Met Lys Pro Asp Phe Ser  
 165 170 175

Gln Leu Gln Arg Asn Ile Leu Ala Ser Asn Pro Arg Val Thr Arg Phe  
 180 185 190

## 5645

His Ile Asn Trp Asp Asn Asn Met Asp Arg Leu Glu Ala Ile Glu Thr  
 195 200 205  
 Gln Asp Pro Ser Leu Gly Cys Gly Leu Pro Leu Asn Cys Thr Pro Ile  
 210 215 220  
 Lys Gly Leu Gly Leu Pro Gly Cys Ile Pro Gly Leu Leu Pro Glu Asn  
 225 230 235 240  
 Ser Met Asp Cys Ile  
 245

&lt;210&gt; 6392

&lt;211&gt; 472

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (139)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (164)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6392

Leu Lys Gly Glu Gln Gly Glu Arg Gly Gln Trp Pro Glu Arg Ala Leu  
 1 5 10 15

Gly Thr Gly Gly Thr Leu Phe Phe Leu Pro Arg Gly Pro Trp Ala Asp  
 20 25 30

Gly Ile Thr Gln Lys Asn Ala Arg Glu Ala Ala Phe Glu Lys Gly Ser  
 35 40 45

His Tyr Pro Arg Ala Gln Thr Glu Arg Met Glu Leu Arg Lys Tyr Gly  
 50 55 60

Pro Gly Arg Leu Ala Gly Thr Val Ile Gly Gly Ala Ala Gln Ser Lys  
 65 70 75 80

Ser Gln Thr Lys Ser Asp Ser Ile Thr Lys Glu Phe Leu Pro Gly Leu  
 85 90 95

Tyr Thr Ala Pro Ser Ser Pro Phe Pro Pro Ser Gln Val Ser Asp His  
 100 105 110



## 5646

Gln	Val	Leu	Asn	Asp	Ala	Glu	Val	Ala	Ala	Leu	Leu	Glu	Asn	Phe	Ser	115	120	125
Ser	Ser	Tyr	Asp	Tyr	Gly	Glu	Asn	Glu	Ser	Xaa	Ser	Cys	Cys	Thr	Ser	130	135	140
Pro	Pro	Cys	Pro	Gln	Asp	Phe	Ser	Leu	Asn	Phe	Asp	Arg	Ala	Phe	Leu	145	150	155
Pro	Ala	Leu	Xaa	Ser	Leu	Leu	Phe	Leu	Leu	Gly	Leu	Leu	Gly	Asn	Gly	165	170	175
Ala	Val	Ala	Ala	Val	Leu	Leu	Ser	Arg	Arg	Thr	Ala	Leu	Ser	Ser	Thr	180	185	190
Asp	Thr	Phe	Leu	Leu	His	Leu	Ala	Val	Ala	Asp	Thr	Leu	Leu	Val	Leu	195	200	205
Thr	Leu	Pro	Leu	Trp	Ala	Val	Asp	Ala	Ala	Val	Gln	Trp	Val	Phe	Gly	210	215	220
Ser	Gly	Leu	Cys	Lys	Val	Ala	Gly	Ala	Leu	Phe	Asn	Ile	Asn	Phe	Tyr	225	230	235
Ala	Gly	Ala	Leu	Leu	Leu	Ala	Cys	Ile	Ser	Phe	Asp	Arg	Tyr	Leu	Asn	245	250	255
Ile	Val	His	Ala	Thr	Gln	Leu	Tyr	Arg	Arg	Gly	Pro	Pro	Ala	Arg	Val	260	265	270
Thr	Leu	Thr	Cys	Leu	Ala	Val	Trp	Gly	Leu	Cys	Leu	Leu	Phe	Ala	Leu	275	280	285
Pro	Asp	Phe	Ile	Phe	Leu	Ser	Ala	His	His	Asp	Glu	Arg	Leu	Asn	Ala	290	295	300
Thr	His	Cys	Gln	Tyr	Asn	Phe	Pro	Gln	Val	Gly	Arg	Thr	Ala	Leu	Arg	305	310	315
Val	Leu	Gln	Leu	Val	Ala	Gly	Phe	Leu	Leu	Pro	Leu	Leu	Val	Met	Ala	325	330	335
Tyr	Cys	Tyr	Ala	His	Ile	Leu	Ala	Val	Leu	Leu	Val	Ser	Arg	Gly	Gln	340	345	350
Arg	Arg	Leu	Arg	Ala	Met	Arg	Leu	Val	Val	Val	Val	Val	Val	Ala	Phe	355	360	365
Ala	Leu	Cys	Trp	Thr	Pro	Tyr	His	Leu	Val	Val	Leu	Val	Asp	Ile	Leu	370	375	380

## 5647

Met Asp Leu Gly Ala Leu Ala Arg Asn Cys Gly Arg Glu Ser Arg Val  
 385 390 395 400

Asp Val Ala Lys Ser Val Thr Ser Gly Leu Gly Tyr Met His Cys Cys  
 405 410 415

Leu Asn Pro Leu Leu Tyr Ala Phe Val Gly Val Lys Phe Arg Glu Arg  
 420 425 430

Met Trp Met Leu Leu Leu Arg Leu Gly Cys Pro Asn Gln Arg Gly Leu  
 435 440 445

Gln Arg Gln Pro Ser Ser Ser Arg Arg Asp Ser Ser Trp Ser Glu Thr  
 450 455 460

Ser Glu Ala Ser Tyr Ser Gly Leu  
 465 470

<210> 6393

<211> 231

<212> PRT

<213> Homo sapiens

<400> 6393

Ala Arg Glu Met Ala Ala Gln Gln Arg Asp Cys Gly Gly Ala Ala Gln  
 1 5 10 15

Leu Ala Gly Pro Ala Ala Glu Ala Asp Pro Leu Gly Arg Phe Thr Cys  
 20 25 30

Pro Val Cys Leu Glu Val Tyr Glu Lys Pro Val Gln Val Pro Cys Gly  
 35 40 45

His Val Phe Cys Ser Ala Cys Leu Gln Glu Cys Leu Lys Pro Lys Lys  
 50 55 60

Pro Val Cys Gly Val Cys Arg Ser Ala Leu Ala Pro Gly Val Arg Ala  
 65 70 75 80

Val Glu Leu Glu Arg Gln Ile Glu Ser Thr Glu Thr Ser Cys His Gly  
 85 90 95

Cys Arg Lys Asn Phe Phe Leu Ser Lys Ile Arg Ser His Val Ala Thr  
 100 105 110

Cys Ser Lys Tyr Gln Asn Tyr Ile Met Glu Gly Val Lys Ala Thr Ile  
 115 120 125

Lys Asp Ala Ser Leu Gln Pro Arg Asn Val Pro Asn Arg Tyr Thr Phe

5648

130                      135                      140  
 Pro Cys Pro Tyr Cys Pro Glu Lys Asn Phe Asp Gln Glu Gly Leu Val  
 145                      150                      155                      160  
 Glu His Cys Lys Leu Phe His Ser Thr Asp Thr Lys Ser Val Val Cys  
                     165                      170                      175  
 Pro Ile Cys Ala Ser Met Pro Trp Gly Asp Pro Asn Tyr Arg Ser Ala  
                     180                      185                      190  
 Asn Phe Arg Glu His Ile Gln Arg Arg His Arg Phe Ser Tyr Asp Thr  
                     195                      200                      205  
 Phe Val Asp Tyr Asp Val Asp Glu Glu Asp Met Met Asn Gln Val Leu  
                     210                      215                      220  
 Gln Arg Ser Ile Ile Asp Gln  
 225                      230  
  
 <210> 6394  
 <211> 625  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 6394  
 Ala Val Arg Leu Pro Ala Ala Tyr Ile Lys Ala Pro Gly His Ala Glu  
   1                      5                      10                      15  
 Pro Ser Ser Arg Thr Arg Pro Thr Thr Met Arg Ser Cys Leu Trp Arg  
                     20                      25                      30  
 Cys Arg His Leu Ser Gln Gly Val Gln Trp Ser Leu Leu Leu Ala Val  
                     35                      40                      45  
 Leu Val Phe Phe Leu Phe Ala Leu Pro Ser Phe Ile Lys Glu Pro Gln  
                     50                      55                      60  
 Thr Lys Pro Ser Arg His Gln Arg Thr Glu Asn Ile Lys Glu Arg Ser  
                     65                      70                      75                      80  
 Leu Gln Ser Leu Ala Lys Pro Lys Ser Gln Ala Pro Thr Arg Ala Arg  
                     85                      90                      95  
 Arg Thr Thr Ile Tyr Ala Glu Pro Val Pro Glu Asn Asn Ala Leu Asn  
                     100                      105                      110  
 Thr Gln Thr Gln Pro Lys Ala His Thr Thr Gly Asp Arg Gly Lys Glu  
                     115                      120                      125

5649

Ala	Asn	Gln	Ala	Pro	Pro	Glu	Gln	Asp	Lys	Val	Pro	His	Thr	Ala	
130						135				140					
Gln	Arg	Ala	Ala	Trp	Lys	Ser	Pro	Glu	Lys	Glu	Lys	Thr	Met	Val	Asn
145					150					155					160
Thr	Leu	Ser	Pro	Arg	Gly	Gln	Asp	Ala	Gly	Met	Ala	Ser	Gly	Arg	Thr
				165					170					175	
Glu	Ala	Gln	Ser	Trp	Lys	Ser	Gln	Asp	Thr	Lys	Thr	Thr	Gln	Gly	Asn
			180					185					190		
Gly	Gly	Gln	Thr	Arg	Lys	Leu	Thr	Ala	Ser	Arg	Thr	Val	Ser	Glu	Lys
		195					200					205			
His	Gln	Gly	Lys	Ala	Ala	Thr	Thr	Ala	Lys	Thr	Leu	Ile	Pro	Lys	Ser
	210					215					220				
Gln	His	Arg	Met	Leu	Ala	Pro	Thr	Gly	Ala	Val	Ser	Thr	Arg	Thr	Arg
225					230					235					240
Gln	Lys	Gly	Val	Thr	Thr	Ala	Val	Ile	Pro	Pro	Lys	Glu	Lys	Lys	Pro
				245					250					255	
Gln	Ala	Thr	Pro	Pro	Pro	Ala	Pro	Phe	Gln	Ser	Pro	Thr	Thr	Gln	Arg
			260					265					270		
Asn	Gln	Arg	Leu	Lys	Ala	Ala	Asn	Phe	Lys	Ser	Glu	Pro	Arg	Trp	Asp
	275						280					285			
Phe	Glu	Glu	Lys	Tyr	Ser	Phe	Glu	Ile	Gly	Gly	Leu	Gln	Thr	Thr	Cys
	290					295					300				
Pro	Asp	Ser	Val	Lys	Ile	Lys	Ala	Ser	Lys	Ser	Leu	Trp	Leu	Gln	Lys
305					310					315					320
Leu	Phe	Leu	Pro	Asn	Leu	Thr	Leu	Phe	Leu	Asp	Ser	Arg	His	Phe	Asn
				325					330					335	
Gln	Ser	Glu	Trp	Asp	Arg	Leu	Glu	His	Phe	Ala	Pro	Pro	Phe	Gly	Phe
			340					345					350		
Met	Glu	Leu	Asn	Tyr	Ser	Leu	Val	Gln	Lys	Val	Val	Thr	Arg	Phe	Pro
	355						360					365			
Pro	Val	Pro	Gln	Gln	Gln	Leu	Leu	Leu	Ala	Ser	Leu	Pro	Ala	Gly	Ser
	370					375					380				
Leu	Arg	Cys	Ile	Thr	Cys	Ala	Val	Val	Gly	Asn	Gly	Gly	Ile	Leu	Asn
385					390					395					400

## 5650

Asn Ser His Met Gly Gln Glu Ile Asp Ser His Asp Tyr Val Phe Arg  
                     405                    410                    415  
 Leu Ser Gly Ala Leu Ile Lys Gly Tyr Glu Gln Asp Val Gly Thr Arg  
                     420                    425                    430  
 Thr Ser Phe Tyr Gly Phe Thr Ala Phe Ser Leu Thr Gln Ser Leu Leu  
                     435                    440                    445  
 Ile Leu Gly Asn Arg Gly Phe Lys Asn Val Pro Leu Gly Lys Asp Val  
                     450                    455                    460  
 Arg Tyr Leu His Phe Leu Glu Gly Thr Arg Asp Tyr Glu Trp Leu Glu  
 465                    470                    475                    480  
 Ala Leu Leu Met Asn Gln Thr Val Met Ser Lys Asn Leu Phe Trp Phe  
                     485                    490                    495  
 Arg His Arg Pro Gln Glu Ala Phe Arg Glu Ala Leu His Met Asp Arg  
                     500                    505                    510  
 Tyr Leu Leu Leu His Pro Asp Phe Leu Arg Tyr Met Lys Asn Arg Phe  
                     515                    520                    525  
 Leu Arg Ser Lys Thr Leu Asp Gly Ala His Trp Arg Ile Tyr Arg Pro  
                     530                    535                    540  
 Thr Thr Gly Ala Leu Leu Leu Leu Thr Ala Leu Gln Leu Cys Asp Gln  
 545                    550                    555                    560  
 Val Ser Ala Tyr Gly Phe Ile Thr Glu Gly His Glu Arg Phe Ser Asp  
                     565                    570                    575  
 His Tyr Tyr Asp Thr Ser Trp Lys Arg Leu Ile Phe Tyr Ile Asn His  
                     580                    585                    590  
 Asp Phe Lys Leu Glu Arg Glu Val Trp Lys Arg Leu His Asp Glu Gly  
                     595                    600                    605  
 Ile Ile Arg Leu Tyr Gln Arg Pro Gly Pro Gly Thr Ala Lys Ala Lys  
                     610                    615                    620  
 Asn  
 625

&lt;210&gt; 6395

&lt;211&gt; 165

&lt;212&gt; PRT

## 5651

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6395

Xaa	Xaa	Gln	Xaa	Xaa	Pro	Met	Ile	Thr	Pro	Ser	Ser	Asn	Thr	Thr	His
1				5					10					15	

Tyr	Arg	Xaa	Leu	Leu	Val	Arg	Leu	Gln	Val	Pro	Val	Arg	Asn	Ser	Arg
			20					25					30		

Val	Asp	Pro	Arg	Val	Arg	Phe	Ser	Ser	Asp	Lys	Thr	Ala	Leu	Val	Gln
		35					40					45			

Tyr	Phe	Met	Leu	Ser	Glu	Gln	Ile	Val	Tyr	Leu	Cys	Leu	Ser	Ile	Cys
	50					55					60				

Ser	Gln	Gly	Gly	Cys	Leu	Gln	Thr	Phe	Asp	Gln	Asp	Ile	His	Leu	Ile
65					70					75				80	

Tyr	Leu	Val	Phe	Phe	Phe	Tyr	Cys	Cys	Phe	Phe	Leu	Arg	Gln	Arg	Phe
			85						90					95	

Ser	Leu	Ser	Pro	Arg	Leu	Glu	Cys	Cys	Gly	Val	Ile	Leu	Ala	His	Cys
			100				105						110		

Asn	Leu	Arg	Leu	Pro	Gly	Ser	Ser	Asn	Phe	Pro	Ala	Ser	Ala	Ser	Arg
			115				120						125		

## 5652

Val Pro Gly Thr Ile Cys Ala His His His Ala Trp Leu Ile Phe Cys  
130 135 140

Ile Phe Ser Arg Asp Gly Val Ser Pro Cys Trp Leu Gly Trp Ser Arg  
145 150 155 160

Thr Pro Asn Leu Lys  
165

<210> 6396

<211> 35

<212> PRT

<213> Homo sapiens

<400> 6396

Phe Gln Leu Leu Gly Arg Leu Arg Gln Glu Asn Cys Leu Asn Pro Gly  
1 5 10 15

Asp Gly Gly Cys Ser Asp Pro Arg Ser Cys Gln Cys Thr Pro Ala Trp  
20 25 30

Val Thr Glu  
35

<210> 6397

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

## 5653

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (37)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6397

Ile	Pro	Gln	Met	Gln	Pro	Gly	Gly	Val	Gln	Ala	Pro	Xaa	Ile	Gln	Gln
1				5				10					15		

Val	Leu	Ala	Pro	Xaa	Pro	Gly	Gly	Ile	Ser	Pro	Gln	Thr	Gly	Gly	Ile
			20					25					30		

Ile	Gln	Xaa	Xaa	Xaa	Ile
					35

&lt;210&gt; 6398

&lt;211&gt; 53

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6398

Asn	Ser	Ala	Glu	Leu	Trp	Ala	Glu	Glu	Tyr	Ala	His	Val	Val	Leu	Arg
1				5					10					15	

Lys	Ala	Asp	Ile	Asp	Leu	Thr	Lys	Arg	Ala	Gly	Glu	Leu	Thr	Glu	Asp
			20					25					30		

Glu	Val	Glu	Arg	Val	Ile	Thr	Ile	Met	Gln	Asn	Pro	Arg	His	Thr	Arg
			35					40					45		

Ser	Gln	Thr	Gly	Ser
				50

&lt;210&gt; 6399

&lt;211&gt; 54

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6399

Gly	Val	Pro	Val	Pro	Pro	Ser	Leu	Ala	Gly	Ile	Met	Gln	Arg	Thr	Phe
1				5					10					15	

Ala	Trp	Leu	Leu	Asp	Arg	Val	Gln	His	Leu	Gly	Ala	Pro	Val	Thr	Leu
			20						25					30	



5654

Arg Ala Ser Tyr Leu Glu Ile Tyr Asn Glu Gln Val Ser Ala Val Glu  
35 40 45

Gly Thr Gln Pro Thr Pro  
50

&lt;210&gt; 6400

&lt;211&gt; 73

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6400

Gly Lys Ile Asp Pro Asp Gln Thr Val Ile Arg Ala Glu Ser Leu Asp  
1 5 10 15

Gly Gly Asp Thr Ser Ser Thr Val Val Glu Ser Gln Glu Gly Leu Ser  
20 25 30

Gly Thr His Val Pro Glu Ser Ser Asp Cys Cys Glu Gly Phe Ile Asn  
35 40 45

Thr Phe Ser Ser Asn Asp Met Asp Gly Gln Asp Leu Asp Tyr Phe Asn  
50 55 60

Ile Asp Glu Arg Ala Lys Met Ala His  
65 70

&lt;210&gt; 6401

&lt;211&gt; 101

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5655

<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (39)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (54)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (55)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (65)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (78)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (87)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (91)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6401  
Glu Ser Xaa Trp Lys Thr Xaa His Tyr Ser Xaa Ser Trp Tyr Xaa Cys  
1 5 10 15  
Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Ala Pro Gly  
20 25 30  
Thr Ser Thr Asn Gly Lys Xaa Leu Ala Ala Thr Ala Pro Thr Pro Gly  
35 40 45

## 5656

Ile Pro Ile Leu Gln Xaa Xaa Pro Ser Ala Pro Pro Pro Lys Ala Gln  
 50 55 60  
 Xaa Val Ser Pro Val Gln Ala Pro Pro Pro Gly Gly Ser Xaa Gln Leu  
 65 70 75 80  
 Leu Pro Gly Lys Val Leu Xaa Pro Leu Ala Xaa Pro Ser Met Ser Val  
 85 90 95  
 Arg Gly Gly Gly Ala  
 100

<210> 6402

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

## 5657

&lt;222&gt; (93)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (96)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6402

Gly Asn Tyr Tyr Leu Lys Phe Ser Val Val Ser Asp Lys Asn His Met  
1 5 10 15

His Phe Gly Ala Ile Thr Xaa Ala Met Gly Ile Arg Phe Lys Ser Tyr  
20 25 30

Cys Ser Asn Leu Val Arg Thr Leu Met Val Asp Pro Ser Gln Glu Val  
35 40 45

Gln Glu Asn Tyr Asn Phe Xaa Leu Gln Leu Gln Glu Glu Leu Leu Lys  
50 55 60

Glu Leu Arg His Gly Glu Lys Ile Cys Asp Xaa Tyr Asn Ala Xaa Met  
65 70 75 80

Asp Val Val Lys Lys Xaa Lys Pro Glu Leu Xaa Asn Xaa Asn Tyr Xaa  
85 90 95

Lys Pro Arg Val Arg Asp Gly Asn  
100

&lt;210&gt; 6403

&lt;211&gt; 68

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

5658

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (37)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (68)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6403

Pro Gly Xaa Glu Xaa Xaa Pro Thr Val Xaa Gln Val Glu Xaa Ala Ala  
1 5 10 15

His Ser Ile Gln Val Glu Lys Ala Ala His Ser Ile Gln Val Glu Glu  
20 25 30

Gly Ser Pro Gln Xaa Ser Arg Val Arg Arg Gln Pro Thr Gly Ile Gln  
35 40 45

Gly Glu Glu Gly Cys Pro Gln Ala Ser Arg Val Arg Lys Ala Ala His  
50 55 60

Arg His Pro Xaa  
65

&lt;210&gt; 6404

&lt;211&gt; 88

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (68)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 5659

&lt;222&gt; (77)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (85)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (88)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6404

Val	Glu	Asp	Pro	Leu	Arg	Ser	Cys	Cys	Leu	Val	Ala	Ala	Asp	Ala	Gln
1				5					10					15	

Glu	Pro	Glu	Gly	Ala	Gly	Ser	Asp	Ser	Gly	Asp	Ser	Pro	Ala	Ser	Ser
			20					25					30		

Cys	Ser	Ser	Ser	Glu	Asp	Ser	Glu	Gln	Arg	Gly	Val	Gly	Ala	Gly	Gly
			35				40					45			

Pro	Glu	Glu	Gly	Ala	Pro	Pro	Ala	Thr	Ser	Ala	Glu	Arg	Thr	Asn	Gly
	50					55					60				

Gly	Ala	Asp	Xaa	Ala	Trp	Ala	Phe	Leu	Thr	Phe	Thr	Xaa	Thr	Leu	Ala
65					70					75				80	

Thr	Arg	Ser	Arg	Xaa	Ser	Arg	Xaa
				85			

&lt;210&gt; 6405

&lt;211&gt; 75

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (56)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6405

Lys	Phe	Tyr	Met	Asn	Ser	Tyr	Phe	Phe	Leu	Asp	Asn	Met	Leu	Ile	Phe
1				5					10				15		

Ile	Asp	Phe	Thr	Asn	Leu	Gln	His	Met	Gly	Asp	Phe	Gly	Ser	Ile	His
			20					25					30		

## 5660

Arg Pro Gly Ile Val Val Asp Tyr Gln Asn Lys Ser Thr Asn Val Thr  
                   35                  40                  45

Val Ala Ala Ala Arg Gly Ile Xaa Arg Lys Met Met Gln Pro Phe Asn  
           50                  55                  60

Lys Pro Ser Gly Thr Phe Ile Lys Asn Pro Asn  
       65                  70                  75

<210> 6406

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6406

Ala Leu Ser Gln Ile Thr Leu Arg Lys Ser Val Glu Ser Ala Leu Arg  
       1                  5                  10                  15

Gln Leu Glu Arg Glu Lys Ala Leu Leu Gln His Lys Asn Ala Glu Tyr  
           20                  25                  30

Gln Arg Lys Ala Asp His Glu Ala Asp Xaa Lys Arg Xaa Leu Glu Asn  
           35                  40                  45

Asp Gly Leu Xaa Xaa Arg Ile Leu Asn Thr His Gln Glu Lys  
       50                  55                  60

## 5661

&lt;210&gt; 6407

&lt;211&gt; 48

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6407

Arg Gln Ser Gln Leu Ala Gln Asp Glu Arg Val Ser Arg Ser Tyr Leu  
 1 5 10 15

Ala Leu Ala Thr Glu Thr Val Asp Met Phe His Ile Leu Pro Gln Ser  
 20 25 30

Asn Val Ser Pro Arg Ala Arg Phe Cys Ser Met Lys Val Trp Ser Leu  
 35 40 45

&lt;210&gt; 6408

&lt;211&gt; 104

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (48)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6408

Gly Thr Ser Met Asp Val Ile Ser Ile Asp Lys Thr Gly Glu Asn Phe  
 1 5 10 15

Arg Leu Ile Tyr Asp Thr Lys Gly Arg Phe Ala Val His Arg Ile Thr  
 20 25 30

Pro Glu Glu Ala Lys Tyr Lys Leu Cys Lys Val Arg Lys Ile Phe Xaa  
 35 40 45

Gly Thr Lys Gly Ile Pro His Leu Val Thr His Asp Ala Arg Thr Ile  
 50 55 60

Arg Tyr Pro Asp Pro Leu Ile Lys Val Asn Asp Thr Ile Gln Ile Asp  
 65 70 75 80

Leu Glu Thr Gly Lys Ile Thr Asp Phe Ile Lys Phe Asp Thr Gly Asn  
 85 90 95

Leu Cys Met Val Thr Trp Arg Cys  
 100



5662

&lt;210&gt; 6409

&lt;211&gt; 49

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (29)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (48)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6409

Thr	Ser	Leu	Pro	Ala	Val	Phe	Pro	Gly	Gln	Val	Arg	Arg	Thr	Leu	Phe
1				5				10					15		

Ile	Thr	Gly	Leu	Pro	Arg	Asp	Ala	Arg	Lys	Glu	Thr	Xaa	Glu	Ser	His
			20					25					30		

Phe	Arg	Asp	Ala	Tyr	Pro	Thr	Cys	Lys	Val	Val	Asp	Val	Gln	Leu	Xaa
		35					40					45			

Tyr

&lt;210&gt; 6410

&lt;211&gt; 191

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (121)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (157)

## 5663

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (171)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (176)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (180)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (182)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (191)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6410

Gly	Arg	Glu	Ile	Xaa	Arg	Ser	Phe	His	Leu	Val	Ile	Ser	Thr	Glu	His
1				5					10					15	

Arg	Pro	Pro	Thr	Met	Glu	Phe	Gly	Pro	Ser	Trp	Val	Phe	Leu	Val	Ala
			20					25					30		

Ile	Leu	Lys	Gly	Val	His	Cys	Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly
		35					40					45			

Gly	Leu	Val	Gln	Pro	Gly	Arg	Ser	Leu	Arg	Leu	Ser	Cys	Thr	Thr	Ser
	50					55					60				

Gly	Phe	Thr	Phe	Gly	Asp	Tyr	Ser	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro
65					70					75					80

Gly	Lys	Gly	Leu	Glu	Trp	Val	Gly	Phe	Ile	Arg	Ser	Lys	Ala	His	Gly
			85						90					95	

Gly	Thr	Thr	Glu	Tyr	Ala	Ala	Ser	Val	Lys	Arg	Gln	Ile	His	His	Leu
			100					105					110		

Lys	Glu	Met	Ile	Pro	Gln	Ala	Ser	Xaa	Ile	Trp	Gln	Met	Asn	Ser	Leu
			115					120				125			

## 5664

Lys Pro Arg Thr Gln Thr Leu Leu Leu Ser Arg His Asp Tyr Arg His  
 130 135 140

Thr Pro Gly Tyr Trp Gly Gln Gly Thr Leu Val Thr Xaa Phe Ser Gly  
 145 150 155 160

Phe His Gln Gly Pro Ser Ser Ser Pro Trp Xaa Pro Cys Ser Arg Xaa  
 165 170 175

Thr Ser Glu Xaa Gln Xaa Pro Gly Leu Ala Gly Gln Gly Leu Xaa  
 180 185 190

<210> 6411

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6411

Gly Asn Lys Ser Trp Ser Ser Thr Ala Val Ala Xaa Ala Leu Glu Leu  
 1 5 10 15

Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Gly Ser Phe Gln Ile  
 20 25 30

Lys Asn Trp Leu Pro Phe Phe Val Arg Val Ser Asp Ala Ala Thr His  
 35 40 45

Ser Ala Pro Gln Asn Ser  
 50

<210> 6412

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5665

<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (21)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6412  
Xaa Xaa Xaa Thr Xaa Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser  
1 5 10 15  
Thr Cys Gly Ala Xaa Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg  
20 25 30  
Asn Ser Ala Arg Gly Gly Ala Pro Val Met Leu Ser Thr Leu Gln Met  
35 40 45  
Cys Cys Leu Ser His  
50

<210> 6413  
<211> 67  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (28)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

## 5666

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6413

Thr	Leu	Thr	Lys	Gly	Asn	Lys	Ser	Trp	Ser	Ser	Thr	Ala	Val	Xaa	Ala
1				5				10						15	

Ala	Leu	Glu	Leu	Val	Asp	Pro	Pro	Gly	Cys	Arg	Xaa	Ser	Ala	Arg	Ala
			20					25					30		

Ala	Ala	Xaa	Gly	Pro	Leu	Gln	Pro	Cys	Arg	Ile	Lys	Thr	Arg	Arg	Arg
		35					40					45			

Lys	Asn	His	Gln	Lys	Gln	Gly	Arg	Val	Glu	Lys	Val	Gln	Lys	Lys	Asp
	50					55					60				

Lys	Thr	Gln
65		

&lt;210&gt; 6414

&lt;211&gt; 50

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6414

Xaa	Xaa	Thr	Leu	Thr	Lys	Gly	Asn	Lys	Ser	Trp	Ser	Ser	Thr	Ala	Val
1					5				10					15	

Xaa	Xaa	Ala	Leu	Glu	Leu	Val	Asp	Pro	Pro	Gly	Cys	Arg	Asn	Ser	Ala
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

5667

20                      25                      30  
 Arg Gly Gly Ile Val Cys Leu Leu Leu Met Asn Leu Gln Trp Leu Gln  
                     35                      40                      45  
 Asn Asp  
          50

&lt;210&gt; 6415

&lt;211&gt; 52

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6415

Xaa Xaa Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val  
   1                      5                      10                      15

Thr Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala  
                     20                      25                      30

Arg Ala Thr Thr Gly Glu Ser Ile His Gln Val Thr Glu Phe Leu Gln  
                     35                      40                      45

Arg Gly His Tyr  
          50

&lt;210&gt; 6416

&lt;211&gt; 39

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 5668

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6416

Xaa	Asn	Lys	Xaa	Xaa	Xaa	Ser	Thr	Ala	Val	Xaa	Ala	Ala	Leu	Glu	Leu
1				5					10					15	

Val	Asp	Pro	Pro	Gly	Cys	Arg	Asn	Ser	Ala	Arg	Ala	Val	Leu	Phe	Ser
			20					25					30		

Ile	Met	Asn	Ser	Trp	Leu	Arg
					35	

&lt;210&gt; 6417

&lt;211&gt; 51

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6417

Xaa	Thr	Leu	Thr	Lys	Gly	Asn	Lys	Ser	Trp	Ser	Ser	Thr	Ala	Val	Ala
1				5					10					15	

Ala	Ala	Leu	Glu	Leu	Val	Asp	Pro	Pro	Gly	Cys	Arg	Asn	Ser	Ala	Arg
			20						25				30		

Gly	Arg	Leu	Met	Met	Thr	Phe	Ser	Gln	Val	Leu	Gly	Lys	Lys	Leu	Lys
			35					40				45			

5669

Leu Leu Leu  
50

&lt;210&gt; 6418

&lt;211&gt; 40

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6418

Ser Thr Leu Ile Lys Gly Thr Lys Ser Trp Xaa Ser Thr Ala Val Ala  
1 5 10 15

Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg  
20 25 30

Asp Asp Ile Glu Thr Ser Val Ile  
35 40

&lt;210&gt; 6419

&lt;211&gt; 41

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6419

Gly Xaa Xaa Asn Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala  
1 5 10 15

Val Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser  
20 25 30

Ala Arg Gly Leu Ile Ser Ser His Leu  
35 40



5670

&lt;210&gt; 6420

&lt;211&gt; 37

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6420

Xaa Ser Xaa Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val

1

5

10

15

Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala

20

25

30

Arg Ala Phe Gly Phe

35

&lt;210&gt; 6421

&lt;211&gt; 29

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6421

Lys Asn His Lys Pro Ser Val Leu Leu Gly Phe Asp Met Ser Glu Leu

1

5

10

15

Lys Asn Val Lys His Arg Leu Asn Phe Glu Tyr Glu Pro

20

25

&lt;210&gt; 6422

&lt;211&gt; 85

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

## 5671

&lt;222&gt; (66)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (82)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (83)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6422

Ala	Ile	Gln	Arg	Thr	Pro	Lys	Ile	Gln	Val	Tyr	Ser	Arg	His	Pro	Ala
1				5				10						15	

Glu	Asn	Gly	Lys	Ser	Asn	Phe	Leu	Asn	Cys	Tyr	Val	Ser	Gly	Phe	His
		20					25					30			

Pro	Ser	Asp	Ile	Glu	Val	Asp	Leu	Leu	Lys	Asn	Gly	Glu	Arg	Ile	Glu
		35					40					45			

Lys	Val	Glu	His	Ser	Asp	Leu	Ser	Phe	Ser	Lys	Asp	Trp	Leu	Ser	Ile
	50					55				60					

Ser	Xaa	Thr	Thr	Leu	Asn	Ser	Pro	Pro	Leu	Lys	Lys	Met	Ser	Met	Pro
65					70					75					80

Ala	Xaa	Xaa	Thr	Met
				85

&lt;210&gt; 6423

&lt;211&gt; 172

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (103)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (124)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 5672

&lt;222&gt; (153)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (159)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (170)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (172)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6423

Pro	Gln	Ser	Lys	Val	Leu	Tyr	Ile	Thr	Ser	Asn	Pro	Met	Ser	Leu	Cys
1				5					10					15	

Gln	Ala	Ser	Arg	His	Gln	Pro	Asn	Val	Asn	Asp	Leu	Leu	Val	His	Gly
			20					25					30		

Met	Pro	Leu	Gln	Pro	Arg	Asn	Leu	Ser	Leu	Met	Asp	Lys	Leu	Leu	Asp
		35					40					45			

Leu	Asp	Asp	Lys	Leu	Leu	Met	Arg	Pro	Gly	Ser	Ser	Thr	Ile	Leu	Ser
	50					55					60				

Thr	Arg	Asn	Trp	Pro	Asn	Arg	Ala	Val	Glu	Phe	Ser	Thr	Ser	Ser	Leu
65					70					75					80

Ser	Tyr	Thr	Val	Gln	Ser	Thr	Arg	Arg	Arg	Asn	Pro	Pro	Pro	Arg	Thr
				85						90				95	

Leu	His	Pro	Ile	Ser	Thr	Xaa	His	Ser	Cys	Ala	Glu	Thr	Pro	Gly	Ser
			100					105					110		

Val	Glu	Glu	Ile	Leu	Arg	Gly	Ala	Arg	Val	Pro	Xaa	Ala	Pro	Asp	Ser
		115					120					125			

Leu	Ser	Phe	Ser	Leu	Thr	Asp	Ala	Pro	Glu	Leu	Lys	Leu	Ile	Cys	Tyr
	130					135					140				

His	Leu	Leu	Gly	Thr	Ala	Glu	Val	Xaa	Thr	Cys	Asp	His	Cys	Xaa	Gly
145					150					155					160

His	Arg	Asp	Lys	Met	Asn	Pro	Gln	Trp	Xaa	Leu	Xaa
				165					170		

5673

&lt;210&gt; 6424

&lt;211&gt; 129

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (104)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (105)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (109)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (112)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (124)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (127)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6424

Phe	Gly	Thr	Ser	Ile	Glu	Val	Arg	Asn	Tyr	Ser	Arg	Leu	Lys	Pro	Gly
1				5					10					15	

Tyr	Arg	Trp	Glu	Arg	Gln	Leu	Val	Phe	Arg	Ser	Lys	Leu	Thr	Met	His
			20					25					30		

Thr	Ala	Phe	Asn	Arg	Lys	Asp	Asn	Ala	His	Pro	Ala	Glu	Val	Thr	Ala
			35					40						45	

Leu	Gly	Ile	Ser	Lys	Asp	His	Ser	Arg	Ile	Leu	Val	Gly	Asp	Ser	Arg
			50				55					60			

## 5674

Gly Arg Val Phe Ser Trp Ser Val Ser Asp Gln Pro Gly Arg Ser Ala  
 65 70 75 80

Ala Asp His Trp Val Lys Asp Glu Gly Gly Asp Ser Cys Ser Gly Cys  
 85 90 95

Ser Val Arg Phe Ser Leu Thr Xaa Xaa Arg His His Xaa Arg Asn Xaa  
 100 105 110

Gly Ser Ala Leu Leu Pro Glu Val His Arg Phe Xaa Ser Glu Xaa Asn  
 115 120 125

Val

<210> 6425

<211> 118

<212> PRT

<213> Homo sapiens

<400> 6425

Asp Glu Leu Ser Glu Ala Leu Leu Leu Ile Lys Ala Gln Lys Glu Gln  
 1 5 10 15

Lys Asn Gly Asp Leu Ser Phe Leu Val Lys Val Asp Ser Glu Ile Asn  
 20 25 30

Lys Asp Leu Glu Arg Ser Met Arg Glu Leu Gln Ala Thr His Ala Glu  
 35 40 45

Thr Val Gln Glu Leu Glu Lys Thr Arg Asn Met Leu Ile Met Gln His  
 50 55 60

Lys Ile Asn Lys Asp Tyr Gln Met Glu Val Glu Ala Val Thr Arg Lys  
 65 70 75 80

Met Glu Asn Leu Gln Gln Asp Tyr Glu Leu Lys Val Glu Gln Tyr Val  
 85 90 95

His Leu Leu Asp Ile Arg Ala Ala Arg Ile His Lys Leu Glu Glu Ala  
 100 105 110

Val Ser Leu Gly Ser Ile  
 115

<210> 6426

<211> 51

5675

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (50)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (51)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6426

Glu	Arg	Gly	Gly	Xaa	Val	Asn	Leu	Leu	Lys	Leu	Val	Pro	Cys	Xaa	Tyr
1				5					10					15	

Arg	Ser	Gly	Ile	Pro	Gly	Ser	Thr	His	Ala	Ser	Val	Gln	Asp	Gly	Ala
			20					25					30		

Thr	Gly	Ala	Gly	Leu	Ser	Ala	His	Gln	Ala	Arg	Pro	Ile	Leu	Arg	Pro
		35					40					45			

Val	Xaa	Xaa
		50

&lt;210&gt; 6427

&lt;211&gt; 108

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

5676

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6427

Val	Ala	Leu	Leu	Ala	Leu	Leu	Cys	Ala	Ser	Ala	Ser	Gly	Asn	Ala	Ile
1				5					10					15	

Gln	Ala	Arg	Ser	Ser	Ser	Tyr	Ser	Gly	Glu	Tyr	Gly	Gly	Gly	Gly	Gly
			20					25					30		

Lys	Xaa	Phe	Xaa	His	Ser	Gly	Asn	Gln	Leu	Asp	Gly	Pro	Ile	Thr	Ala
		35					40					45			

Leu	Arg	Val	Arg	Val	Asn	Thr	Tyr	Tyr	Ile	Val	Gly	Leu	Gln	Val	Arg
	50					55					60				

Tyr	Gly	Lys	Val	Trp	Ser	Asp	Tyr	Val	Gly	Gly	Arg	Asn	Gly	Asp	Leu
65					70					75				80	

Glu	Glu	Ile	Phe	Leu	Xaa	Pro	Gly	Glu	Ser	Val	Ile	Gln	Val	Ser	Gly
				85					90					95	

Xaa	Tyr	Lys	Trp	Tyr	Leu	Lys	Glu	Ala	Gly	Ile	Xaa
				100				105			

<210> 6428

<211> 89

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

5677

<220>  
 <221> SITE  
 <222> (48)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (54)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (64)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (66)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (69)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (79)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6428

Pro Phe Ser Val Pro Gln Pro Leu Ala Met Pro Phe Arg Pro Gly Leu  
 1 5 10 15

Pro Pro Ile Val Glu Ser Met Xaa Val Val Val Glu Thr Ile Leu Ser  
 20 25 30

Phe Trp Gln Pro Val Gly Arg Pro Ile Thr Ala Leu Arg Val Arg Xaa  
 35 40 45

Asn Thr Tyr Tyr Ile Xaa Gly Leu Gln Val Ala Tyr Gly Gln Gly Xaa  
 50 55 60

Glu Xaa Thr Ile Xaa Val Cys Ser Pro Thr Gly Lys Pro Gly Xaa Lys  
 65 70 75 80

Ile Phe Ser Cys Pro Pro Trp Gly Asn  
 85



5678

&lt;210&gt; 6429

&lt;211&gt; 181

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (132)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (164)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (176)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (178)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (181)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6429

Phe	Phe	Ser	Ile	Met	Phe	Thr	Pro	Leu	Asp	Arg	Tyr	Xaa	Asp	Arg	Asn
1				5				10					15		

Met	Gln	Ile	Asn	Arg	His	Gln	Tyr	Cys	Ala	Leu	Lys	Ala	Met	Ser	Ala
		20					25					30			

Val	Leu	Cys	Cys	Gly	Pro	Val	Ala	Asp	Asn	Val	Gly	Leu	Ser	Ser	Asp
		35				40					45				

Gly	Tyr	Leu	Tyr	Lys	Trp	Leu	Asp	Asn	Ile	Leu	Asp	Ser	Leu	Asp	Lys
	50					55				60					

Lys	Val	His	Gln	Leu	Gly	Cys	Glu	Ala	Val	Thr	Leu	Leu	Leu	Glu	Leu
65					70					75					80

## 5679

Asn Pro Asp Gln Ser Asn Leu Met Tyr Trp Ala Val Asp Arg Cys Tyr  
                     85                    90                    95  
 Thr Gly Ser Gly Arg Val Ala Ala Gly Cys Phe Lys Ala Ile Ala Asn  
                     100                    105                    110  
 Val Phe Gln Asn Arg Asp Tyr Gln Cys Asp Thr Val Met Leu Leu Asn  
                     115                    120                    125  
 Leu Ile Leu Xaa Lys Ala Ala Asp Ser Ser Arg Ser Ile Tyr Glu Val  
                     130                    135                    140  
 Ala Met Gln Leu Leu Gln Ile Leu Glu Pro Lys Met Phe Arg Tyr Ala  
 145                    150                    155                    160  
 His Lys Leu Xaa Val Gln Arg Thr Glu Trp Arg Thr His Pro Val Xaa  
                     165                    170                    175  
 Pro Xaa His Asn Xaa  
                     180

&lt;210&gt; 6430

&lt;211&gt; 78

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6430

Gly Arg Val Xaa Gly Arg Val Gly Gly Ala Val Phe Gln Ile Tyr Ile  
   1                    5                    10                    15  
 Ile Lys Asp Leu Glu Lys Leu Leu Met Ile Ala Gly Glu Glu Arg Ala  
                     20                    25                    30  
 Leu Cys Leu Val Asp Val Lys Lys Val Lys Gln Ser Leu Ala Gln Ser  
                     35                    40                    45  
 His Leu Pro Ala Gln Pro Asp Ile Ser Pro Asn Ile Phe Glu Ala Val  
                     50                    55                    60  
 Lys Gly Cys His Leu Phe Gly Ala Gly Gln Glu Leu Arg Thr  
   65                    70                    75

## 5680

<210> 6431  
<211> 62  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (12)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (27)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (30)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (32)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (41)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (44)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (45)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

## 5681

&lt;221&gt; SITE

&lt;222&gt; (47)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (48)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (57)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6431

Gly	Phe	Cys	Arg	Ser	Ser	Thr	Leu	Xaa	Gln	His	Xaa	Arg	Val	His	Xaa
1				5					10					15	

Gly	Glu	Arg	Pro	Tyr	Lys	Cys	Asp	Asp	Cys	Xaa	Lys	Ala	Xaa	Ser	Xaa
			20					25					30		

Ser	Ser	Asp	Leu	Ile	Arg	His	Gln	Xaa	Thr	His	Xaa	Xaa	Asp	Xaa	Xaa
		35					40					45			

Xaa	Pro	Gly	Ala	Pro	Ala	Trp	Val	Xaa	Gly	Val	Gly	Arg	Arg
	50					55					60		

&lt;210&gt; 6432

&lt;211&gt; 72

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6432

Glu	Leu	Arg	Cys	Ser	Leu	Gln	Leu	Ala	Glu	Thr	Glu	Arg	Glu	Gly	Gly
1				5					10					15	

Phe	Ser	Pro	His	Ile	Ser	Pro	Phe	Thr	Ala	Val	Asn	Asp	Leu	Gly	His
			20					25					30		

Leu	Leu	Gly	Arg	Ala	Gly	Phe	Asn	Thr	Leu	Thr	Val	Asp	Thr	Asp	Glu
		35					40					45			

Ile	Gln	Val	Asn	Tyr	Pro	Gly	Met	Phe	Glu	Leu	Met	Glu	Asp	Leu	Gln
	50					55					60				

5682

Glu Gln Lys Ser Arg Met Leu Thr  
65 70

&lt;210&gt; 6433

&lt;211&gt; 151

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (134)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (136)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (143)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (151)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5683

&lt;400&gt; 6433

Xaa Xaa Lys Leu Pro Xaa Glu Gly Pro Leu Gly Arg Leu Xaa Val Pro  
 1 5 10 15  
 Val Arg Asn Ser Arg Val Asp Pro Arg Val Arg Pro Arg Val Arg Pro  
 20 25 30  
 Arg Val Arg Glu Phe Arg Lys Ala Lys Ala Ser Ser Thr Gly Ser Phe  
 35 40 45  
 Thr Ala Pro Asp Pro Gly Leu Lys Arg Lys Ser Pro Pro Glu Ala Leu  
 50 55 60  
 Ser Gly Ser Leu Pro Pro Ala Thr Thr Cys Pro Ala Ser Ser Thr Pro  
 65 70 75 80  
 Ala Pro Thr Ile Ile Pro Ala Pro Ala Ala Pro Gly Lys Pro Ala Ser  
 85 90 95  
 Ala Ala Thr Val Lys Arg Lys Arg Lys Ser Arg Trp Gly Pro Glu Glu  
 100 105 110  
 Asp Lys Val Glu Leu Pro Pro Ala Glu Leu Val Gln Arg Asp Val Asp  
 115 120 125  
 Ala Ser Pro Ser Pro Xaa Gln Xaa Arg Thr Ser Arg Gly Ser Xaa Met  
 130 135 140  
 Arg Arg Gly Ser Leu Trp Xaa  
 145 150

&lt;210&gt; 6434

&lt;211&gt; 104

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (89)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (92)

## 5684

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6434

Asp	Xaa	Ser	Arg	Tyr	Arg	Ser	Gly	Ile	Pro	Gly	Ser	Thr	His	Ala	Ser
1				5				10						15	

Ala	Asp	Ala	Cys	Phe	Ala	Phe	Tyr	Ala	Tyr	His	Tyr	Arg	Phe	Asn	Gly
			20					25						30	

Gln	Tyr	Ser	Ser	Leu	Ala	Leu	Val	Thr	Tyr	Trp	Leu	Phe	Ile	Gln	Val
		35					40					45			

Arg	Pro	Gly	Arg	Gln	Ala	Gly	Gly	Arg	Pro	Ala	Val	Pro	Phe	Gln	Ala
		50				55					60				

Gly	Glu	Ala	Ala	Ala	Gly	Glu	Asp	Ala	Leu	Trp	Gly	Arg	Pro	Lys	Arg
65					70					75					80

Ala	Glu	Val	Ala	Trp	Met	Val	Pro	Xaa	Gly	Leu	Xaa	Ser	Xaa	Ser	Ser
				85					90					95	

Gly	Trp	Val	Val	Lys	Gly	Gly	Pro
							100

<210> 6435

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6435

Gly	Thr	Ser	Ala	Cys	Gly	Ala	Gly	Gly	Gly	Ala	Pro	Arg	Gly	Ser	Ala
1				5					10					15	

Val	Phe	Arg	Ala	Ala	Gly	Leu	Asp	Gly	Ala	Leu	Gly	Lys	Ala	Leu	Lys
			20					25					30		

Glu	Gln	Lys	Tyr	Asp	Arg	Gln	Leu	Arg	Leu	Trp	Gly	Asp	His	Gly	Gln
		35					40					45			

## 5686

Thr Gln Asn Ile Leu Lys Cys Tyr Cys Ile Pro  
                   85                  90

<210> 6438

<211> 114

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6438

Xaa Leu Met Lys Asp Gln Phe Tyr Ala Gln Ser Ser Ala Ser Gln Arg  
   1                  5                  10                  15

Arg Leu Pro Cys Leu Ala Val Gly Gly Ser Gly Tyr Ala Pro Glu Gln  
                   20                  25                  30

Leu Ser Gly Phe Trp Leu Ser Trp Cys Pro Arg Gly Thr Gly Ser Leu  
                   35                  40                  45

Leu Ser Gly Gly Trp Gly Phe Met Pro Arg Asp Asp Arg Leu Gly Cys  
                   50                  55                  60

Gly Val Ala Gly Ala Gln Thr Gln Met Pro Val Ala Gly Gly Pro Gln  
   65                  70                  75                  80

Ser Gly Leu Gly Leu Pro Ser Gly Pro Phe Pro Gln Leu His Cys Cys  
                   85                  90                  95

Pro Arg Glu Pro Arg Ser Pro Gly Val Lys Asp Arg Gly Gly Arg Gly  
                   100                  105                  110

Gln Ala

<210> 6439

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids



5687

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6439

Thr	Thr	Xaa	Xaa	Thr	Leu	Xaa	Ala	Ser	Pro	Ser	Arg	Gly	Arg	Leu	Xaa
1				5					10					15	

Gly	Val	Gln	Gly	Thr	Cys	Leu	Gly	Arg	Cys	Glu	Ser	Pro	Leu	Pro	Ser
			20					25					30		

His	Pro	Cys	Pro	Asn	Arg	Trp	Ser	Cys	Cys	Leu	Glu	Ser	Glu	Glu	Leu
		35					40					45			

Trp	Cys	Pro	Cys	Phe	Gly	Pro	Gly	Pro	Ala	Pro	Ala	Ser	Asp	Arg	Pro
	50					55					60				

&lt;210&gt; 6440

&lt;211&gt; 81

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6440

Gly	Leu	Gly	Leu	Lys	His	Leu	Trp	Lys	Pro	Ala	Val	Glu	Ala	Tyr	Gly
1				5					10					15	

Glu	Phe	Leu	Cys	Met	Phe	Glu	Glu	Asn	Tyr	Pro	Glu	Thr	Leu	Lys	Arg
			20					25					30		

Leu	Phe	Val	Val	Lys	Ala	Pro	Lys	Leu	Phe	Pro	Val	Ala	Tyr	Asn	Leu
			35				40						45		

Ile	Lys	Pro	Phe	Leu	Ser	Glu	Asp	Thr	Arg	Lys	Lys	Ile	Met	Val	Leu
	50						55				60				

5689

His Leu Ala Pro Cys  
115

&lt;210&gt; 6442

&lt;211&gt; 70

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 5690

&lt;221&gt; SITE

&lt;222&gt; (42)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (50)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (56)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (59)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (60)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (62)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (65)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6442

Val	Lys	Ser	Gly	Xaa	Tyr	Val	Val	Ile	Glu	Val	Lys	Val	Ala	Xaa	Xaa
1				5				10						15	

Tyr	Gly	Ile	Xaa	Ile	Thr	Cys	Xaa	Xaa	Tyr	Leu	Met	Thr	Xaa	Tyr	Gln
		20						25					30		

Xaa	Ala	Pro	Pro	Ser	Pro	Gln	Tyr	Arg	Xaa	Ile	Ile	Cys	Met	Gly	Ala
		35					40					45			

Xaa	Xaa	Asn	Gly	Leu	Pro	Leu	Xaa	Tyr	Gln	Xaa	Xaa	Leu	Xaa	Ala	Leu
		50				55						60			

## 5691

Xaa Pro Asn Asp Tyr Thr  
65 70

<210> 6443

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

## 5692

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (64)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (73)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6443

Leu Phe Lys Met Gln Ile Val Ala Cys Gly Glu Gly Pro Gly Leu Ser  
 1 5 10 15

Arg Glu Arg Xaa Gly Xaa Xaa Phe Ser Gln Pro Gly Arg Ser Xaa Xaa  
 20 25 30

Gly Ala Phe Xaa Met Cys Lys Gly Gly Val Gln Ala Pro Gly Gly Val  
 35 40 45

Leu Ala Val Ser Phe Phe Leu Xaa Gly Asp Gly Xaa Gly Val Arg Xaa  
 50 55 60

Gly Ala Asp Ala Leu Ala Cys Glu Xaa Glu Leu Glu Lys Cys Arg Cys  
 65 70 75 80

&lt;210&gt; 6444

&lt;211&gt; 129

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6444

Lys Glu Leu Glu Leu Tyr Lys Glu Glu Leu Gln Thr Lys Pro Ala Leu  
 1 5 10 15

Leu Ala Val Asn Lys Met Asp Leu Pro Asp Ala Gln Asp Lys Phe His  
 20 25 30

Glu Leu Met Ser Gln Leu Gln Asn Pro Lys Asp Phe Leu His Leu Phe  
 35 40 45

Glu Lys Asn Met Ile Pro Glu Arg Thr Val Glu Phe Gln His Ile Ile  
 50 55 60

Pro Ile Ser Ala Val Thr Gly Glu Gly Ile Glu Glu Leu Lys Asn Cys  
 65 70 75 80

## 5693

Ile Arg Lys Ser Leu Asp Glu Gln Ala Asn Gln Glu Asn Asp Ala Leu  
85 90 95

His Lys Lys Gln Leu Leu Asn Leu Trp Ile Ser Asp Thr Met Ser Ser  
100 105 110

Thr Glu Pro Pro Ser Lys His Ala Val Thr Thr Ser Lys Met Asp Ile  
115 120 125

Ile

<210> 6445

<211> 135

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

## 5694

&lt;221&gt; SITE

&lt;222&gt; (66)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (69)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (70)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (98)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (102)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (118)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (126)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (131)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6445

Leu	Arg	Gln	Ala	Leu	Ile	Arg	Leu	Thr	Ile	Xaa	Xaa	Xaa	Trp	Tyr	Ala
1				5					10					15	

Cys	Arg	Tyr	Arg	Ala	Gly	Ile	Xaa	Gly	Ser	Thr	His	Ala	Ser	Ala	Gly
			20					25					30		

Glu	Arg	Pro	Phe	Glu	Cys	Ile	Glu	Cys	Gly	Lys	Ala	Phe	Ser	Asn	Gly
			35				40					45			

Ser	Xaa	Leu	Ala	Gln	His	Gln	Arg	Ile	His	Thr	Gly	Glu	Lys	Pro	Xaa
						55					60				

## 5695

Val Xaa Asn Val Xaa Xaa Lys Ala Phe Ser His Arg Gly Tyr Leu Ile  
65 70 75 80

Val His Gln Arg Ile His Thr Gly Glu Arg Pro Tyr Glu Cys Lys Glu  
85 90 95

Cys Xaa Lys Ala Phe Xaa Gln Tyr Ala His Leu Ala Gln His Gln Arg  
100 105 110

Val His Thr Gly Glu Xaa Pro Tyr Glu Cys Lys Val Leu Xaa Glu Ser  
115 120 125

Leu Gln Xaa Asn Cys Ile Pro  
130 135

<210> 6446

<211> 138

<212> PRT

<213> Homo sapiens

<220>

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)



## 5696

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

## 5697

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (40)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (43)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (45)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (49)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (56)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (70)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (71)  
<223> Xaa equals any of the naturally occurring L-amino acids

5698

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (120)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (121)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (122)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (128)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6446

Lys	Trp	Leu	Pro	Pro	Lys	Phe	Pro	Xaa	Lys	Arg	Xaa	Gly	Xaa	Leu	Ile
1				5					10					15	

Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Ile	Xaa	Xaa	Pro	Xaa	Xaa	Xaa	Xaa	Tyr
			20					25					30		

Gly	Xaa	Ala	Trp	Xaa	Xaa	Pro	Xaa	Trp	Asn	Xaa	Pro	Xaa	Phe	Cys	Pro
		35					40					45			

Xaa	Ile	Asn	Val	Leu	Leu	Ala	Xaa	Asn	Leu	Ser	Pro	Arg	Pro	Leu	Pro
	50					55					60				

Arg	Lys	Val	Pro	Pro	Xaa	Xaa	Val	Gly	Gly	Asn	Leu	Val	Ala	Ile	Leu
65					70					75					80

Thr	Ala	Ala	Asn	Leu	Lys	Ser	Val	Asn	Leu	Val	Ala	Asn	Phe	Asn	Thr
			85						90					95	

Leu	Phe	Val	Leu	Val	Gln	Ile	Ser	Ile	Met	Val	Val	Phe	Ile	Phe	Leu
		100						105					110		

Val	Val	Gln	Gly	Leu	His	Lys	Xaa	Xaa	Xaa	Leu	Ala	Pro	Ser	Gly	Xaa
		115					120					125			

Phe	Ser	Arg	Leu	Ser	Ala	Arg	Thr	Arg	Thr
	130					135			

&lt;210&gt; 6447

5699

&lt;211&gt; 197

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (141)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (162)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (164)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (181)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (189)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (190)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (193)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (194)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6447

Ala	Asp	Ala	Trp	Val	Leu	Val	Val	Phe	Lys	Ala	Pro	Arg	Ala	Asp	Ser
1				5					10					15	

His	Gly	Pro	Gly	Cys	Arg	Pro	Pro	Leu	Cys	Pro	Gly	Leu	Val	Ala	Tyr
			20					25					30		

## 5700

Val Asp Leu Asp Glu Arg Ala Ile Asp Ala Leu Arg Glu Phe Asn Glu  
           35                          40                          45  
 Glu Gly Ala Leu Ser Val Leu Gln Gln Phe Lys Glu Ser Asp Leu Ser  
           50                          55                          60  
 His Val Gln Asn Lys Ser Ala Phe Leu Cys Gly Val Met Lys Thr Tyr  
           65                          70                          75                          80  
 Arg Gln Arg Glu Lys Gln Gly Ser Lys Val Gln Glu Ser Thr Lys Gly  
                           85                          90                          95  
 Pro Asp Glu Ala Lys Ile Lys Ala Leu Leu Glu Arg Thr Gly Tyr Thr  
                           100                          105                          110  
 Leu Asp Val Thr Thr Gly Gln Arg Lys Tyr Gly Gly Pro Ser Pro Asp  
           115                          120                          125  
 Ser Val Tyr Ser Gly Val Gln Pro Gly Ile Gly Thr Xaa Val Phe Val  
           130                          135                          140  
 Gly Lys Ile Pro Arg Asp Leu Tyr Glu Asp Glu Leu Val Pro Leu Phe  
           145                          150                          155                          160  
 Glu Xaa Ala Xaa Pro Ile Trp Asp Leu Arg Leu Met Met Asp Pro Leu  
                           165                          170                          175  
 Ser Gly Arg Ile Xaa Gly Met His Leu Ser Pro Ser Xaa Xaa Lys Glu  
                           180                          185                          190  
 Xaa Xaa Arg Lys Pro  
           195

&lt;210&gt; 6448

&lt;211&gt; 65

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6448

Tyr Thr Leu Leu Glu Leu Glu Leu Pro Arg Leu Leu Ala Pro Asp Leu  
           1                          5                          10                          15  
 Pro Ser Asn Gly Ser Ser Leu Lys Asp Leu Lys Trp Thr His Ser Asn  
                           20                          25                          30  
 Tyr Arg Ala Ser Lys Glu Ser Cys Ile Val Ile Phe Arg His Tyr Leu  
           35                          40                          45  
 Pro Gly Ser Gly Val Gly Asn Leu Arg Ala Cys Cys Leu Pro Trp Met

## 5701

50

55

60

Trp

65

&lt;210&gt; 6449

&lt;211&gt; 60

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (51)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6449

Ile	Trp	His	Glu	Ala	Thr	Pro	Thr	Gly	Gly	Gly	Xaa	Met	Ala	Arg	Thr
1				5				10					15		

Trp	Lys	Pro	Thr	Leu	Val	Ile	Leu	Xaa	Ile	Lys	Arg	Ala	Gly	Arg	Cys
			20					25					30		

Xaa	Arg	Trp	Xaa	Pro	Asn	Glu	Asn	Lys	Val	Ala	Val	Gly	Asn	Gly	Ser
			35					40					45		

## 5702

Xaa Glu Xaa Ser Ile Trp Tyr Phe Gln Gln Gly Glu  
           50                          55                          60

<210> 6450

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6450

Asp Phe Xaa Gln Met Leu Gln Glu Ile Gln Glu Val Lys Thr Pro Glu  
      1                          5                          10                          15

Glu Leu Glu Thr Phe Met Leu Lys His Gly Glu Asn Ile Ile Asp Thr  
                           20                          25                          30

Leu Gly Ala Glu Val Asp Arg Leu Glu Lys Glu Leu Lys Val Arg Cys  
           35                          40                          45

Ile His Lys Asn Asn Ile Met Ile Met Ala Ala Ile Phe Leu Ser Thr  
      50                          55                          60

Tyr Ser Thr Ala Asp Thr Lys Cys Ile His His Met His Ala Leu Thr  
      65                          70                          75                          80

His Ser

<210> 6451

<211> 164

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

## 5703

<220>  
<221> SITE  
<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (47)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (51)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (64)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (65)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (79)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (92)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (107)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (110)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (123)  
<223> Xaa equals any of the naturally occurring L-amino acids



## 5704

&lt;400&gt; 6451

Xaa His His Leu Tyr Arg Ala Tyr Ser Phe Xaa Met Gly Cys Trp Pro  
 1 5 10 15  
 Lys Asn Gly Leu Leu Xaa Met Asn Lys Gly Leu Ser Leu Gln His Ile  
 20 25 30  
 Gly Arg Pro His Thr Gly Ile Asp Asp Cys Lys Lys His Cys Xaa His  
 35 40 45  
 His Glu Xaa Thr Arg Leu Ser Arg Leu His Leu Gln Ala Asp Ile Xaa  
 50 55 60  
 Xaa Val Leu Ile Gly Pro Arg Gln Asp Gly Ala Arg Gln Gly Xaa Cys  
 65 70 75 80  
 Leu Ala His Pro Lys Ser Ser Ser Pro Ser Pro Xaa Gly Lys Lys Glu  
 85 90 95  
 Asn Gly Ile Leu Cys Val Gln Asn Val Pro Xaa Ala Cys Xaa Leu Cys  
 100 105 110  
 Pro Trp Arg Trp Leu Phe Pro Cys Lys Gly Xaa Ala Leu Gly Pro Ser  
 115 120 125  
 Gly Thr Lys Leu Phe Ser Pro His Pro Thr Leu Ile Ser Pro Ser Ile  
 130 135 140  
 Thr Pro Pro Leu Arg Ala Gly Leu Gly Glu Pro Gly Ser Pro Leu Ser  
 145 150 155 160  
 Leu Phe Thr Gly

&lt;210&gt; 6452

&lt;211&gt; 107

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (66)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6452

Val Val Ser Lys Val Cys Val Trp Pro Gly Val His Pro Leu Pro Ser  
 1 5 10 15  
 Ser Pro Ala Pro Glu His Ser Cys Ser Ala Arg Pro His Ser Ser Ala

## 5705

	20		25		30
Leu	Leu	Pro	Ile	Pro	Thr
	35			40	
					45
Ala	His	Val	Asp	Trp	Glu
	50			55	
					60
Ala	Xaa	Ala	Val	Phe	Ser
	65			70	
					75
					80
Gly	Cys	Phe	Pro	Ala	Arg
			85		
				90	
					95
Arg	Gly	Leu	Glu	Gly	Trp
			100		
				105	

&lt;210&gt; 6453

&lt;211&gt; 114

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (87)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (96)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (99)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (100)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (103)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 5706

&lt;222&gt; (108)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (110)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6453

Glu	Gly	Lys	Gly	Leu	Glu	Gly	Pro	Leu	Asp	Leu	Ile	Asn	Tyr	Ile	Asp
1				5				10						15	

Val	Ala	Gln	Gln	Asp	Gly	Lys	Leu	Pro	Phe	Val	Pro	Pro	Glu	Glu	Glu
			20					25					30		

Phe	Ile	Met	Gly	Val	Ser	Lys	Tyr	Gly	Ile	Lys	Val	Ser	Thr	Ser	Asp
		35					40					45			

Gln	Tyr	Asp	Val	Leu	His	Arg	His	Ala	Leu	Tyr	Leu	Ile	Ile	Arg	Met
	50					55					60				

Val	Cys	Tyr	Asp	Asp	Gly	Leu	Gly	Ala	Gly	Lys	Ser	Leu	Leu	Ala	Leu
	65					70				75					80

Lys	Thr	Thr	Asp	Ala	Ser	Xaa	Glu	Glu	Tyr	Arg	Leu	Trp	Val	Tyr	Xaa
				85					90					95	

Val	Gln	Xaa	Xaa	Gly	Thr	Xaa	Thr	Ser	His	Leu	Xaa	Gly	Xaa	Ile	His
			100					105					110		

Arg Phe

&lt;210&gt; 6454

&lt;211&gt; 95

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (75)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (80)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 5707

&lt;221&gt; SITE

&lt;222&gt; (81)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (82)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6454

Leu	Leu	Gly	Pro	Gly	Lys	Pro	Trp	Ser	Pro	Ser	Pro	Gln	Pro	Pro	Pro
1				5				10					15		

Arg	Ala	His	Arg	Ser	Ser	Pro	Trp	Ala	Pro	Ser	Ser	Lys	Ser	Thr	Ser
			20					25					30		

Gly	Gly	Thr	Arg	Ala	Leu	Gly	Cys	Leu	Val	Lys	Asp	Tyr	Phe	Pro	Glu
		35					40					45			

Pro	Val	Arg	Phe	Leu	Gly	Asn	Ser	Gly	Ala	Leu	Thr	Ser	Gly	Val	Ser
	50					55					60				

His	Leu	Pro	Gly	Cys	Ser	Tyr	Ser	Pro	Gln	Xaa	Ser	Thr	Pro	Ser	Xaa
65					70					75					80

Xaa	Xaa	Leu	Thr	Val	Pro	Ser	Gln	Lys	Leu	Gly	Asp	Gln	Lys	Leu	
				85					90					95	

&lt;210&gt; 6455

&lt;211&gt; 108

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (92)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6455

Ala	Pro	Phe	Arg	Gly	Pro	Lys	Asp	Arg	Ala	Arg	Lys	Leu	Ala	Glu	Val
1				5					10				15		

Gly	Ser	His	Glu	Lys	Val	Gly	Gln	Xaa	Pro	Cys	Cys	Val	Arg	Leu	Glu
			20				25						30		

## 5708

Gln Ala Trp Glu Glu Gly Gly Ile Leu Tyr Leu Gln Thr Glu Leu Cys  
           35                          40                          45  
 Gly Pro Ser Leu Gln Gln His Cys Glu Ala Trp Gly Ala Ser Leu Pro  
           50                          55                          60  
 Glu Ala Gln Val Trp Gly Tyr Leu Arg Asp Thr Leu Leu Ala Leu Ala  
           65                          70                          75                          80  
 His Leu His Ser Gln Gly Leu Val His Leu Asp Xaa Gln Ala Cys Gln  
                           85                          90                          95  
 His Leu Pro Gly Ala Pro Gly Pro Leu Gln Ala Gly  
           100                          105

&lt;210&gt; 6456

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6456

Gly Gly Leu Asn Gln Thr Gln Leu Arg Lys Ile Leu Ala Tyr Ser Ser  
           1                          5                          10                          15  
 Ile Thr His Ile Gly  
                           20

&lt;210&gt; 6457

&lt;211&gt; 128

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6457

Arg Arg Ala Met Ala Asp Glu Glu Leu Glu Ala Leu Arg Arg Gln Arg  
           1                          5                          10                          15  
 Leu Ala Glu Leu Gln Ala Lys His Gly Asp Pro Gly Asp Ala Ala Gln  
                           20                          25                          30  
 Gln Glu Ala Lys His Arg Glu Ala Glu Met Arg Asn Ser Ile Leu Ala  
           35                          40                          45  
 Gln Val Leu Asp Gln Ser Ala Arg Ala Arg Leu Ser Asn Leu Ala Leu  
           50                          55                          60  
 Val Lys Pro Glu Lys Thr Lys Ala Val Glu Asn Tyr Leu Ile Gln Met

## 5709

65		70		75		80
Ala Arg Tyr Gly Gln Leu Ser Glu Lys Val Ser Glu Gln Gly Leu Ile						
	85		90		95	
Glu Ile Leu Lys Lys Val Ser Gln Gln Thr Glu Lys Thr Thr Thr Val						
	100		105		110	
Lys Val Ser Val Pro Arg Cys Leu Trp Gln Met Lys Arg Trp Ile Leu						
	115		120		125	

&lt;210&gt; 6458

&lt;211&gt; 163

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6458

Glu Val Thr Thr Phe Gln Leu Ala Val Leu Phe Ala Trp Asn Gln Arg															
1		5				10						15			
Pro Arg Glu Lys Ile Ser Phe Glu Asn Leu Lys Leu Ala Thr Glu Leu															
	20					25						30			
Pro Asp Ala Glu Leu Arg Arg Thr Leu Trp Ser Leu Val Ala Phe Pro															
	35					40						45			
Lys Leu Lys Arg Gln Val Leu Leu Tyr Glu Pro Gln Val Asn Ser Pro															
	50					55						60			
Lys Asp Phe Thr Glu Gly Thr Leu Phe Ser Val Asn Gln Glu Phe Ser															
65					70				75					80	
Leu Ile Lys Asn Ala Lys Val Gln Lys Arg Gly Lys Ile Asn Leu Ile															
		85						90						95	
Gly Arg Leu Gln Leu Thr Thr Glu Arg Met Arg Glu Glu Glu Asn Glu															
	100							105					110		
Gly Ile Val Gln Leu Arg Ile Leu Arg Thr Gln Glu Ala Ile Ile Gln															
	115							120				125			
Ile Met Lys Met Arg Lys Lys Ile Ser Asn Ala Gln Leu Gln Thr Glu															
	130							135				140			
Leu Val Glu Ile Leu Lys Asn Met Phe Leu Pro Gln Lys Glu Met Ile															
145					150				155					160	

## 5710

Lys Val Gln

&lt;210&gt; 6459

&lt;211&gt; 175

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (148)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (167)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (169)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6459

Asp	Asp	Arg	Leu	Arg	Glu	Glu	Arg	Ala	His	Ala	Leu	Lys	Thr	Lys	Glu
1				5					10					15	

Lys	Leu	Ala	Gln	Thr	Ala	Thr	Ala	Ser	Ser	Ala	Ala	Val	Gly	Ser	Gly
			20					25					30		

Pro	Pro	Pro	Glu	Ala	Glu	Gln	Ala	Trp	Pro	Gln	Ser	Ser	Gly	Glu	Glu
			35				40					45			

Glu	Leu	Gln	Leu	Gln	Leu	Ala	Leu	Ala	Met	Ser	Lys	Glu	Glu	Ala	Asp
		50				55					60				

Gln	Pro	Pro	Ser	Cys	Gly	Pro	Glu	Asp	Asp	Ala	Gln	Leu	Gln	Leu	Ala
65					70					75					80

Leu	Ser	Leu	Ser	Arg	Glu	Glu	His	Asp	Lys	Glu	Glu	Arg	Ile	Arg	Arg
				85					90					95	

Gly	Asp	Asp	Leu	Arg	Leu	Gln	Met	Ala	Ile	Glu	Glu	Ser	Lys	Arg	Glu
			100					105					110		

Thr	Gly	Gly	Lys	Glu	Glu	Ser	Ser	Leu	Met	Asp	Leu	Ala	Asp	Val	Phe
			115					120					125		

## 5711

Thr Gly Pro Ala Ser Ala Arg Pro Gln Thr Pro Gly Gly Ala His Thr  
 130 135 140

His Gly Leu Xaa Pro Ser His Gly Leu Pro Asn Leu Asp Pro Trp Gly  
 145 150 155 160

Gly Pro Pro Val Pro Ser Xaa Ala Xaa Ser Pro Gly Glu Gly Ser  
 165 170 175

&lt;210&gt; 6460

&lt;211&gt; 71

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6460

Ala Xaa Ala Ser Asp Leu Asn Asp Ile Tyr Glu Glu Glu Pro Phe Asn  
 1 5 10 15

Phe Gln Met Val Tyr Asn Glu Phe Gln Lys Phe Val Gln Arg Lys Ala  
 20 25 30

His Ser Val Tyr Asn Phe Glu Lys Pro Val Val Met Lys Ala Phe Glu  
 35 40 45

His Leu Gln Gln Leu Glu Leu Ile Lys Pro Met Glu Arg Thr Ser Gly  
 50 55 60

Asn Ser Gln Arg Glu Ser Ser  
 65 70

&lt;210&gt; 6461

&lt;211&gt; 76

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (65)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE



## 5712

&lt;222&gt; (66)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (74)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6461

Leu	Val	Pro	Asn	Ser	Ala	Arg	Val	Trp	Thr	Asn	Pro	Gln	Ile	Lys	Leu
1				5					10					15	

Ser	Leu	Thr	Glu	Lys	Asp	Glu	Gly	Gln	Glu	Glu	Cys	Ser	Phe	Leu	Val
			20					25					30		

Ala	Leu	Met	Gln	Lys	Asp	Arg	Arg	Lys	Leu	Lys	Arg	Phe	Gly	Ala	Asn
		35						40				45			

Val	Leu	Thr	Ile	Gly	Tyr	Ala	Ile	Tyr	Asn	Cys	Pro	Asn	Lys	Asn	Lys
	50					55					60				

Xaa	Xaa	Asn	Lys	Asn	Pro	Pro	Asn	Pro	Xaa	Ser	Leu
65					70					75	

&lt;210&gt; 6462

&lt;211&gt; 127

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (108)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5713

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (115)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6462

Xaa	Thr	Thr	Xaa	Xaa	Gly	Lys	Ala	Gly	Thr	Pro	Ala	Gly	Thr	Gly	Pro
1				5					10					15	

Glu	Phe	Pro	Gly	Arg	Pro	Thr	Arg	Pro	Lys	Ala	Leu	Lys	Arg	Gly	Ser
			20					25					30		

Leu	Leu	Gly	Cys	Phe	Ile	Asp	Thr	Arg	Ser	Ala	Ala	Glu	Ser	Glu	Ala
		35						40					45		

Arg	Thr	Pro	Phe	Gly	Leu	Ile	Lys	Gly	His	Ala	Tyr	Ser	Val	Thr	Gly
	50						55				60				

Ile	Asp	Gln	Val	Ser	Phe	Arg	Gly	Gln	Arg	Ile	Glu	Leu	Ile	Arg	Ile
65						70				75					80

Arg	Asn	Pro	Trp	Gly	Gln	Val	Glu	Trp	Asn	Gly	Ser	Trp	Ser	Asp	Ser
				85					90					95	

Ser	Pro	Glu	Trp	Arg	Ser	Val	Val	Gln	Leu	Ser	Xaa	Ser	Val	Cys	Val
			100					105					110		

Thr	Leu	Xaa	Trp	Met	Met	Gly	Asn	Ser	Gly	Trp	His	Leu	Arg	Thr	
		115					120					125			

&lt;210&gt; 6463

&lt;211&gt; 152

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (134)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (146)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6463

Val	Leu	Thr	Leu	Gln	Gly	Asp	Ala	Leu	Ser	Gln	Ala	Asp	Val	Asn	Leu
1				5					10					15	

## 5714

Lys Met Pro Arg Asn Asn Gln Leu Leu His Phe Ala Phe Arg Glu Asp  
                   20                  25                  30  
 Lys Gln Trp Lys Leu Gln Gln Ile Gln Asp Ala Arg Asn His Val Ser  
                   35                  40                  45  
 Gln Ala Ile Tyr Leu Leu Thr Ser Arg Asp Gln Ser Tyr Gln Phe Lys  
                   50                  55                  60  
 Thr Gly Ala Glu Val Leu Lys Leu Met Asp Ala Val Met Leu Gln Leu  
                   65                  70                  75                  80  
 Thr Arg Ala Arg Asn Arg Leu Thr Thr Pro Ala Thr Leu Thr Leu Pro  
                                   85                  90                  95  
 Glu Ile Ala Ala Ser Gly Leu Thr Arg Met Phe Ala Pro Ala Leu Pro  
                   100                  105                  110  
 Ser Asp Leu Leu Val Asn Val Tyr Ile Asn Leu Asn Lys Leu Cys Leu  
                   115                  120                  125  
 Thr Val Tyr Gln Leu Xaa Ala Leu Gln Pro Asn Phe Thr Lys Asn Phe  
                   130                  135                  140  
 Ala Xaa Trp Gly Arg Gly Ala Ala  
                   145                  150

&lt;210&gt; 6464

&lt;211&gt; 59

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 5715

&lt;222&gt; (27)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE .

&lt;222&gt; (31)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (42)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6464

Ser	Arg	Arg	Xaa	Met	Ala	Val	Leu	Ser	Xaa	Glu	Tyr	Gly	Phe	Val	Leu
1				5				10						15	

Leu	Thr	Gly	Ala	Ala	Ser	Phe	Xaa	Met	Val	Xaa	Xaa	Leu	Ala	Xaa	Asn
			20					25					30		

Val	Ser	Lys	Ala	Arg	Lys	Lys	Tyr	Lys	Xaa	Glu	Trp	Thr	Leu	Pro	Leu
		35					40					45			

Xaa	Phe	Ser	His	Thr	Gln	Phe	Leu	Phe	Phe	Tyr
	50					55				

&lt;210&gt; 6465

&lt;211&gt; 99

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

## 5716

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

5718

Ile Leu Lys Gly Thr Ser Thr Cys Asp Lys Asp Val  
35 40

&lt;210&gt; 6467

&lt;211&gt; 177

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (72)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (89)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (115)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (125)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (144)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (153)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

5719

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (154)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (157)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (167)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (168)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6467

Gly	Xaa	Thr	Thr	Xaa	His	Tyr	Arg	Glu	Ser	Trp	Tyr	Ala	Cys	Arg	Tyr
1				5					10					15	

Arg	Ser	Gly	Ile	Pro	Gly	Ser	Thr	His	Ala	Ser	Ala	Asp	Ala	Trp	Val
			20					25					30		

Gly	Met	Gln	Leu	Asp	Arg	Ala	Ser	Ser	Ser	Leu	Tyr	Val	Ala	Phe	Ser
		35					40					45			

Thr	Cys	Val	Ile	Lys	Val	Pro	Leu	Gly	Arg	Cys	Glu	Arg	His	Gly	Lys
	50					55					60				

Cys	Lys	Lys	Thr	Cys	Ile	Ala	Xaa	Arg	Asp	Pro	Tyr	Cys	Gly	Trp	Ile
65					70					75					80

Lys	Glu	Gly	Gly	Ala	Cys	Ser	His	Xaa	Ser	Pro	Asn	Ser	Arg	Leu	Thr
				85					90					95	

Phe	Glu	Gln	Asp	Ile	Glu	His	Gly	Asn	Thr	Asp	Gly	Leu	Gly	Asp	Cys
			100					105					110		

His	Asn	Xaa	Phe	Val	Ala	Leu	Asn	Gly	His	Ser	Ser	Xaa	Leu	Leu	Pro
		115					120					125			

Ser	Thr	Thr	Thr	Ser	Asp	Ser	Thr	Ala	Gln	Glu	Gly	Tyr	Glu	Thr	Xaa
	130					135					140				

Gly	Gly	Met	Leu	Asp	Trp	Lys	His	Xaa	Xaa	Asp	Ser	Xaa	Asp	Ser	Thr
145					150					155					160

5720

Asp Pro Leu Gly Ala Arg Xaa Xaa His Asn His Gln Arg Gln Glu Gly  
165 170 175

Ser

<210> 6468

<211> 99

<212> PRT

<213> Homo sapiens

<400> 6468

Met Gly Ala Val Gln Gln Phe Asn Leu Asp Val Ile Gln Cys Glu Leu  
1 5 10 15

Phe Ala Ser Ser Glu Pro Val Pro Gly Phe Gln Gly Asp Thr Leu Gln  
20 25 30

Leu Ala Phe Ile Asp Leu Arg Gln Leu Leu Asp Leu Phe Met Val Trp  
35 40 45

Asp Trp Ser Thr Tyr Leu Ala Asp Tyr Gly Gln Pro Ala Ser Lys Tyr  
50 55 60

Leu	Arg	Val	Asn	Pro	Asn	Thr	Ala	Leu	Thr	Leu	Leu	Glu	Lys	Met	Lys
65					70					75					80

Asp Thr Ser Lys Lys Asn Asn Ile Phe Ala Gln Phe Arg Lys Asn Asp  
85 90 95

Arg Asp Lys

<210> 6469

<211> 30

<212> PRT

<213> Homo sapiens

<400> 6469

Ile Gln Val Ser Val Leu Thr Asp Gln Val Glu Ala Gln Gly Glu Lys  
1 5 10 15

Ile Arg Asp Leu Glu Phe Cys Leu Lys Ser Thr Glu Arg Ser  
20 25 30



## 5721

&lt;210&gt; 6470

&lt;211&gt; 116

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6470

Lys Leu Pro Leu Lys Ala Lys Met Gly Lys Glu Lys Thr His Ile Asn  
 1 5 10 15

Ile Val Val Ile Gly His Val Asp Ser Gly Lys Ser Thr Thr Thr Gly  
 20 25 30

His Leu Ile Tyr Lys Cys Gly Gly Ile Asp Lys Arg Thr Ile Glu Lys  
 35 40 45

Phe Glu Lys Glu Ala Ala Glu Met Gly Lys Gly Ser Phe Lys Tyr Ala  
 50 55 60

Trp Val Leu Asp Lys Leu Lys Ala Glu Arg Glu Arg Gly Ile Thr Ile  
 65 70 75 80

Asp Ile Ser Leu Trp Lys Phe Glu Thr Ser Lys Tyr Tyr Val Thr Ile  
 85 90 95

Ile Asp Ala Pro Gly His Arg Asp Phe Ile Lys Asn Met Ile Thr Gly  
 100 105 110

Thr Ser Gln Ala  
 115

&lt;210&gt; 6471

&lt;211&gt; 37

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6471

Glu Lys Pro Tyr Gly Ile Val Glu Lys Lys Ser Arg Ile Phe Pro Gly  
 1 5 10 15

Asp Thr Ile Leu Glu Thr Gly Glu Val Ile Pro Pro Met Lys Glu Phe  
 20 25 30

Pro Asp Gln His His  
 35

&lt;210&gt; 6472

&lt;211&gt; 89

## 5723

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (90)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6473

Ala	Xaa	Gln	Arg	Ala	Val	Tyr	Asp	Glu	Gln	Gly	Thr	Val	Asp	Glu	Asp
1				5					10					15	

Ser	Pro	Val	Leu	Thr	Gln	Asp	Arg	Asp	Trp	Glu	Ala	Tyr	Trp	Arg	Leu
			20					25					30		

Leu	Phe	Lys	Lys	Ile	Ser	Leu	Glu	Asp	Ile	Gln	Ala	Phe	Glu	Lys	Thr
		35						40					45		

Tyr	Lys	Gly	Ser	Glu	Glu	Glu	Leu	Ala	Asp	Ile	Lys	Gln	Ala	Tyr	Leu
	50					55					60				

Asp	Phe	Lys	Gly	Asp	Met	Asp	Gln	Ile	Met	Glu	Ser	Val	Leu	Cys	Val
65					70					75				80	

Gln	Tyr	Thr	Glu	Glu	Pro	Arg	Met	Lys	Xaa	Tyr	His	Ser	Ala	Ser	Tyr
				85					90					95	

&lt;210&gt; 6474

&lt;211&gt; 99

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (31)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (55)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5724

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (56)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (69)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (77)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (88)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (95)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6474

Lys	Glu	Ser	Thr	Leu	His	Leu	Val	Leu	Arg	Leu	Arg	Gly	Gly	Met	Gln
1				5					10					15	

Ile	Phe	Val	Lys	Thr	Leu	Thr	Gly	Lys	Thr	Ile	Thr	Leu	Glu	Xaa	Glu
			20					25					30		

Pro	Ser	Asp	Thr	Ile	Glu	Asn	Val	Glu	Ala	Lys	Ile	Gln	Asp	Lys	Glu
		35					40					45			

Gly	Ile	Pro	Pro	Asp	Gln	Xaa	Xaa	Leu	Ile	Phe	Ala	Gly	Lys	Gln	Leu
	50					55					60				

Glu	Asn	Gly	Arg	Xaa	Leu	Ser	Asp	Tyr	His	Ile	Gln	Xaa	Asp	Pro	Pro
65					70					75					80

Cys	Thr	Trp	Cys	Ser	Val	Ser	Xaa	Val	Gly	Cys	Lys	Ser	Ser	Xaa	Arg
				85					90					95	

Pro Asp Trp

&lt;210&gt; 6475

## 5725

&lt;211&gt; 64

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (27)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (42)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (52)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (60)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6475

Gly	Lys	Leu	Val	Arg	Leu	Gln	Val	Pro	Gly	Arg	Asn	Ser	Arg	Val	Asp
1				5					10					15	

Pro	Arg	Val	Arg	Gly	Ser	Glu	Leu	Ser	Gly	Xaa	Ile	Ser	Ser	Ala	Cys
			20					25						30	

Asp	Xaa	Glu	Xaa	Asn	Met	Glu	Arg	Arg	Xaa	Ile	Thr	Ile	Ser	Lys	Ser
		35						40					45		

Glu	Tyr	Ser	Xaa	His	Ser	Ser	Leu	Ala	Ser	Lys	Xaa	Asp	Val	Glu	Gln
	50						55					60			

## 5726

&lt;210&gt; 6476

&lt;211&gt; 82

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (32)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (63)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (67)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (75)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (76)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6476

Ala	Phe	Leu	Ala	Ser	Gly	Pro	Tyr	Leu	Thr	His	Gln	Gln	Lys	Val	Leu
1				5					10					15	

Arg	Leu	Tyr	Lys	Arg	Ala	Leu	Arg	His	Leu	Glu	Ser	Trp	Cys	Val	Xaa
			20					25					30		

Arg	Asp	Lys	Tyr	Arg	Tyr	Phe	Ala	Cys	Leu	Met	Arg	Ala	Arg	Phe	Glu
		35					40					45			

Glu	His	Lys	Asn	Glu	Lys	Asp	Met	Ala	Lys	Ala	Thr	Gln	Leu	Xaa	Asn
	50					55					60				

Glu	Ala	Xaa	Gly	Lys	Asn	Ser	Gly	Thr	Ala	Xaa	Xaa	Thr	Ala	Ile	His
65					70					75					80

Leu Pro

5727

&lt;210&gt; 6477

&lt;211&gt; 48

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6477

Ala Leu Leu Leu Gly Lys Lys Gly Ile Glu Lys Asn Leu Gly Ile Gly  
1 5 10 15

Lys Val Ser Ser Phe Glu Glu Lys Met Ile Ser Asp Ala Ile Pro Glu  
20 25 30

Leu Lys Ala Ser Ile Lys Lys Gly Glu Asp Phe Val Lys Thr Leu Lys  
35 40 45

&lt;210&gt; 6478

&lt;211&gt; 158

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (108)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (150)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6478

Arg Val Leu Ala Asp Ile Thr Lys Ser Leu Thr Asn Pro Thr Pro Ile  
1 5 10 15

Gln Gln Gln Leu Arg Arg Phe Thr Glu His Asn Ser Ser Pro Asn Val  
20 25 30

Ser Gly Ser Leu Ser Ser Gly Leu Gln Lys Ile Phe Xaa Asp Pro Thr  
35 40 45

## 5728

Asp Ser Asp Leu His Lys Leu Lys Ser Pro Ser Gln Asp Asn Thr Asp  
           50                          55                          60  
 Ser Tyr Phe Arg Gly Lys Thr Leu Leu Leu Val Gln Gln Ala Ser Ser  
       65                          70                          75                          80  
 Gln Ser Met Thr Tyr Ser Glu Lys Asp Glu Arg Glu Ser Ser Leu Pro  
                           85                          90                          95  
 Asn Gly Arg Ser Val Ser Leu Met Asp Leu Gln Xaa Thr His Ala Ala  
                           100                          105                          110  
 Gln Val Glu His Ala Ser Val Met Leu Asp Val Pro Ile Arg Leu Thr  
           115                          120                          125  
 Gly Ser Gln Leu Ser Ile Thr Gln Val Ala Ser Ile Lys Gln Leu Arg  
       130                          135                          140  
 Glu Thr Gln Ser Thr Xaa Gln Ser Ala Pro Gln Val Arg Arg  
       145                          150                          155

&lt;210&gt; 6479

&lt;211&gt; 69

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

## 5729

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6479

Thr	Xaa	Xaa	Leu	Ser	Xaa	Ala	Phe	Xaa	Xaa	Glu	Asp	Pro	Gly	Leu	Arg
1				5					10					15	

Thr	Arg	Ala	Cys	Asp	Xaa	Ile	His	Ser	Ser	Ile	Val	Ala	Thr	Tyr	Xaa
		20						25					30		

Gln	Xaa	Thr	Gly	Arg	Arg	Ser	Thr	Thr	Ser	Thr	Thr	Gly	Lys	Thr	Leu
		35					40					45			

Glu	Leu	Pro	Asn	Leu	Xaa	Arg	Leu	Ala	Ala	His	Ala	Pro	Xaa	Xaa	Ser
	50					55					60				

Trp	Arg	Asn	Lys	Gly
65				

<210> 6480



## 5730

&lt;211&gt; 62

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (62)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6480

Ser Gly His Ser Asn Tyr Met Val Asp Trp Tyr Gln Gln Arg Pro Gly

1

5

10

15

Lys Gly Pro Arg Phe Val Met Arg Val Gly Thr Ser Gly Val Val Gly

20

25

30

Pro Arg Gly Asp Gly Ile Pro Asp Arg Phe Ser Val Leu Ala Ser Gly

35

40

45

Leu Ser Arg Asp Leu Thr Ile Thr Asn Ile Gln Glu Arg Xaa

50

55

60

&lt;210&gt; 6481

&lt;211&gt; 62

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (40)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 5731

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (54)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (59)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6481

Ile	Lys	Arg	Val	Ser	Leu	Leu	Xaa	Asn	Pro	Pro	Thr	Val	Gly	Gly	Gly
1				5				10					15		

Thr	Leu	Lys	Leu	Thr	Asp	Val	His	Pro	Xaa	Ile	Leu	Glu	Pro	Thr	Ser
			20					25					30		

Ala	Xaa	Ser	Thr	Thr	His	Pro	Xaa	Phe	Tyr	Pro	Asn	Xaa	Phe	Gly	Ala
		35					40					45			

Asn	Pro	Thr	Leu	Leu	Xaa	Leu	Phe	Pro	Pro	Xaa	Tyr	Pro	Leu
	50					55					60		

&lt;210&gt; 6482

&lt;211&gt; 118

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6482

Pro	Thr	Gly	Pro	Asp	Pro	Ala	Gly	Lys	Glu	Gly	Glu	Gly	Gly	Gln	Ala
1				5				10					15		

Gln	Cys	Ser	Arg	Glu	His	Ala	Gly	Asp	Pro	Trp	Phe	Gln	Ser	Pro	Ala
			20					25					30		

Gly	Ala	Ala	Thr	Lys	Pro	Ala	Leu	Lys	Ser	Glu	Glu	Lys	Thr	Pro	Ile
		35					40					45			

Lys	Lys	Pro	Gly	Asp	Gly	Arg	Lys	Val	Thr	Phe	Phe	Glu	Pro	Gly	Ser
		50				55					60				

Gly	Asp	Glu	Asn	Gly	Thr	Ser	Asn	Lys	Glu	Asp	Glu	Phe	Arg	Met	Pro
65					70					75					80

Tyr	Leu	Ser	His	Gln	Gln	Leu	Pro	Ala	Gly	Ile	Leu	Pro	Met	Val	Pro
				85					90					95	

## 5732

Glu Val Ala Gln Ala Val Gly Val Ser Gln Gly His His Thr Lys Asp  
100 105 110

Phe Thr Arg Ala Ala Pro  
115

<210> 6483  
<211> 96  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (21)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (28)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

## 5733

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (50)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (55)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (61)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (74)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (77)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (86)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6483

Xaa	Xaa	Gly	Xaa	Pro	Ala	Gly	Thr	Arg	Ser	Gly	Ile	Pro	Gly	Ser	Thr
1				5					10					15	

His	Ala	Pro	Phe	Xaa	Xaa	Xaa	Gly	Ala	Ala	Leu	Xaa	Ala	Gly	Gly	Ile
			20					25					30		

Trp	Xaa	Xaa	Ile	Asp	Gly	Ala	Ser	Phe	Leu	Lys	Ile	Phe	Gly	Pro	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

## 5734

35	40	45
Xaa Xaa Ser Ala Met Gln Xaa Val Asn Val Gly Tyr Xaa Leu Ile Ala		
50	55	60
Ala Gly Val Val Val Phe Ala Leu Gly Xaa Leu Gly Xaa Tyr Gly Ala		
65	70	75
Lys Thr Glu Ser Lys Xaa Ala Leu Val Thr Tyr Phe Tyr Ile Leu Leu		
85	90	95

&lt;210&gt; 6484

&lt;211&gt; 83

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (53)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6484

Ala Ser Ile Ala Ser Thr Ser Trp Arg His Phe Ala Glu Val Ala Tyr
1 5 10 15
Ile Val Glu Gly Asp Phe Thr Gly Val Leu Leu Pro Glu Leu Val Val
20 25 30
Ser Ile Val Leu Leu Leu Ser Lys Asn Ala Gly Leu Met Gln Glu Ala
35 40 45
Gly Ala Val Pro Xaa Leu Gly Gly Leu Leu Glu His Leu Asp Arg Phe
50 55 60
Asn His Leu Ala Pro Gly Lys Glu Arg Asp Asp His Glu Glu Leu Ala
65 70 75 80
Cys Leu Ala

&lt;210&gt; 6485

&lt;211&gt; 94

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

Lys Xaa Cys Pro Lys Tyr Thr Thr Phe Leu Leu Pro Xaa Xaa  
85 90

<213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

Gly Lys Arg Arg Asp Asp Gly Leu Ser Ala Ala Ala Arg Lys Gln Arg  
1 5 10 15

Asp Ser Glu Ile Met Gln Xaa Lys Gln Lys Lys Ala Asn Glu Lys Lys  
20 25 30

Glu Glu Pro Lys  
35

<213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

Arg Arg Gln Val Gly Ala Ala Ala Val Ala Met Thr Arg Gly Asn Gln  
1 5 10 15

Arg Glu Leu Thr Arg Gln Lys Asn Met Lys Lys Gln Ser Asp Ser Val  
20 25 30

Lys Gly Lys Arg Arg Asp Asp Gly Leu Ser Ala Ala Xaa Arg Lys Gln  
35 40 45

Arg Asp Ser Glu Ile Met Gln Gln Lys Gln Lys Lys Ala Asn Glu Lys  
50 55 60

5737

Lys Glu Glu Pro Lys  
65

<210> 6488

<211> 119

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6488

Arg Lys Xaa Leu Ile Gln Arg Leu Leu Met Lys Asp Pro Lys Lys Arg  
1 5 10 15

Leu Gly Cys Gly Pro Arg Asp Ala Asp Glu Ile Lys Glu His Leu Phe  
20 25 30

Phe Gln Lys Ile Asn Trp Asp Asp Leu Ala Ala Lys Lys Val Pro Ala  
35 40 45

Pro Phe Lys Pro Val Ile Arg Asp Glu Leu Asp Val Ser Asn Phe Ala  
50 55 60

Glu Glu Phe Thr Glu Met Asp Pro Thr Tyr Ser Pro Ala Ala Leu Pro  
65 70 75 80

Gln Ser Ser Glu Glu Ala Val Ser Gly Leu Phe Phe Val Ala Pro Ser  
85 90 95

Ile Leu Phe Lys Arg Asn Ala Ala Val Ile Asp Pro Leu Gln Phe His  
100 105 110

Met Gly Val Glu Arg Leu Glu  
115

<210> 6489

<211> 88

<212> PRT

<213> Homo sapiens

<400> 6489

Gln Arg Phe Phe Gly Glu Val Leu Leu Tyr Phe Gln Met Ser Gln Ser  
1 5 10 15

## 5738

Asp Asp Arg Asp Ser Lys Arg Asp Ser Leu Glu Glu Gly Glu Leu Arg  
                   20                  25                  30  
 Asp His Arg Met Glu Ile Thr Ile Arg Asn Ser Pro Tyr Arg Arg Glu  
                   35                  40                  45  
 Asp Ser Met Glu Asp Ile Ser Pro Gln Leu Pro Leu Leu Thr Arg Thr  
                   50                  55                  60  
 Ser Cys Pro Ser Cys Leu His Leu Ser Val Pro Leu Glu Trp Met Ala  
                   65                  70                  75                  80  
 Gly Gly Glu Val Glu Ala Asp Ser  
                                   85

&lt;210&gt; 6490

&lt;211&gt; 153

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6490

Glu Leu Ser Ser Val Val Ser Ser Ser Gly Thr Glu Gly Ala Ser Ser  
   1                  5                  10                  15  
 Leu Glu Lys Lys Glu Val Pro Gly Val Asp Phe Ser Ile Thr Gln Phe  
                   20                  25                  30  
 Val Arg Asn Leu Gly Leu Glu His Leu Met Asp Ile Phe Xaa Arg Glu  
                   35                  40                  45  
 Gln Ile Thr Leu Asp Val Leu Val Glu Met Gly His Lys Glu Leu Lys  
                   50                  55                  60  
 Glu Ile Gly Ile Asn Ala Tyr Gly His Arg His Lys Leu Ile Lys Gly  
                   65                  70                  75                  80  
 Val Glu Arg Leu Ile Ser Gly Gln Gln Gly Leu Asn Pro Tyr Leu Thr  
                   85                  90                  95  
 Leu Asn Thr Ser Gly Ser Gly Thr Ile Leu Ile Asp Leu Ser Pro Asp  
                   100                  105                  110  
 Asp Lys Glu Phe Gln Ser Val Glu Glu Glu Met Gln Ser Thr Val Arg  
                   115                  120                  125



## 5739

Glu His Arg Asp Gly Gly His Ala Gly Gly Ile Phe Asn Arg Tyr Asn  
 130 135 140

Ile Leu Lys Ile Gln Lys Val Cys Asn  
 145 150

<210> 6491

<211> 129

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6491

Val Gln Ser Gly Ala Glu Xaa Lys Xaa Ser Gly Glu Ser Leu Ser Ile  
 1 5 10 15

Ser Cys Gln Val Ser Gly Tyr Thr Leu Thr Ser Tyr Trp Ile Asn Trp  
 20 25 30

## 5740

Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met Gly Arg Leu Asp  
           35                          40                          45  
 Pro Ser Asp Ser Phe Ile Asn Tyr Asn Pro Ser Phe Glu Gly His Ile  
           50                          55                          60  
 Ser Ile Ser Ala Asp Lys Phe Ile Ser Thr Ala Tyr Leu Lys Trp Asn  
           65                          70                          75                          80  
 Thr Leu Glu Ala Ser Asp Thr Ala Met Tyr Tyr Cys Ala Leu Ser Gly  
                           85                          90                          95  
 Arg Gln Gln Leu Val Pro Val Tyr Trp Gly Gln Gly Thr Gln Val Xaa  
                           100                          105                          110  
 Arg Leu Leu Xaa Asn Pro Xaa Gln Xaa Gln Arg Leu Ser Ala Glu Pro  
           115                          120                          125

Leu

<210> 6492

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

## 5741

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

5742

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (79)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (82)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (84)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6492

Leu Xaa Lys Phe Ser Val Arg Phe Lys Glu Asn Ser Val Ala Val Lys  
 1 5 10 15

Val Val Gln Gly Pro Ala Gly Gly Asp Asn Xaa Lys Xaa Arg Tyr Lys  
 20 25 30

Lys Lys Gly Ser His Cys Leu Xaa Val Thr Xaa Gln Leu Gly Gly Gly  
 35 40 45

Thr Met Gln Arg Trp Xaa Xaa Leu Pro Pro Glu Pro Ala Leu Ile Xaa  
 50 55 60

Leu Xaa Pro Xaa Phe Phe Gly Gly Xaa Phe Xaa Xaa Xaa Xaa Gly  
 65 70 75 80

Gly Xaa Gly Xaa Gly Val  
 85

&lt;210&gt; 6493

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

<220>

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6493

Phe His Lys Ala Tyr Ala Xaa Leu Val Xaa Ser Trp His Ser Leu Thr

1                      5                      10                      15

Pro Val Ser Ser Asp His Xaa Phe Ser Xaa Trp Arg Ile Tyr His

20 25 30

<210> 6494

<211> 135

<212> PRT

<213> Homo sapiens

<400> 6494

Trp Glu Arg Leu Pro Ser Leu Ala Leu Lys Ala Ser Ser Leu Asp Leu

1	5	10	15
---	---	----	----

Ala Thr Ala Ala Leu Thr Val Met Leu Asp Ser Val Thr His Ser Thr

20                      25                      30

Phe Leu Pro Asn Ala Ser Phe Cys Asp Pro Leu Met Ser Trp Thr Asp

35                      40                      45

Leu Phe Ser Asn Glu Glu Tyr Tyr Pro Ala Phe Glu His Gln Thr Ala

50                      55                      60

Cys Asp Ser Tyr Trp Thr Ser Val His Pro Glu Tyr Trp Thr Lys Arg

65 70 75 80

His Val Trp Glu Trp Leu Gln Phe Cys Cys Asp Gln Tyr Lys Leu Asp

85                          90                          95

Thr Asn Cys Ile Ser Phe Cys Asn Phe Asn Ile Ser Gly Leu Gln Leu

100                      105                      110

Cys Ser Met Thr Gln Glu Glu Phe Val Glu Ala Ala Gly Leu Cys Gly

115                      120                      125

Glu Tyr Leu Tyr Phe Gln Phe

5744

130

135

&lt;210&gt; 6495

&lt;211&gt; 131

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (108)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6495

Pro	Thr	Leu	Thr	Lys	Gly	Asn	Lys	Ser	Trp	Ser	Ser	Thr	Ala	Val	Xaa
1				5				10						15	

Ala	Ala	Leu	Glu	Leu	Val	Asp	Pro	Pro	Gly	Cys	Arg	Asn	Ser	Ala	Arg
			20					25					30		

Gly	Lys	Leu	Asn	Lys	Met	Asp	Gly	Ser	Arg	Lys	Glu	Glu	Glu	Glu	Asp
		35					40				45				

Ser	Thr	Phe	Thr	Asn	Ile	Ser	Leu	Ala	Asp	Asp	Ile	Asp	His	Ser	Ser
	50					55					60				

Arg	Ile	Leu	Tyr	Pro	Arg	Pro	Lys	Ser	Leu	Leu	Pro	Lys	Met	Met	Asn
65					70					75					80

Ala	Asp	Met	Asp	Asp	Leu	Ser	Ala	Arg	Val	Asp	Ala	Val	Lys	Glu	Glu
				85					90					95	

Asn	Leu	Lys	Leu	Lys	Ser	Glu	Asn	Gln	Val	Leu	Xaa	Gln	Tyr	Ile	Glu
		100						105					110		

Asn	Leu	Met	Ser	Ala	Ser	Ser	Val	Phe	Gln	Thr	Thr	Asp	Thr	Lys	Ser
		115					120					125			

Lys	Arg	Lys
		130

&lt;210&gt; 6496

&lt;211&gt; 44

## 5745

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6496

Ile Asn Ile His Lys Cys Tyr Phe Leu Phe Leu Tyr Phe Ile Phe Phe

1

5

10

15

Ser Pro Phe Gln Ile Leu Gly Val Trp Leu Thr Tyr Arg Tyr Arg Asn

20

25

30

Gln Lys Asp Pro Arg Ala Asn Pro Ser Ala Phe Leu

35

40

&lt;210&gt; 6497

&lt;211&gt; 129

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (53)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (56)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (80)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 5746

<221> SITE  
<222> (83)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (89)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (93)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (105)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (111)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (112)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (113)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (119)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6497  
Trp Xaa Glu Ser Gly Leu Pro Ala Val Ala Ala Thr Leu Lys Leu Xaa  
1 5 10 15  
Xaa Pro Pro Gly Cys Met Asn Ser Ala Arg Gly Leu Leu Arg Thr Leu  
20 25 30  
His Gly Ala Arg His Met Val Arg Asp Ala Pro Glu Ile Pro Gln Gly  
35 40 45  
Gly Ser Pro Ala Xaa Cys Ser Xaa Phe Arg Pro Asn Pro Glu Leu Thr  
50 55 60



## 5747

Glu Ala Leu Thr Thr Ser Phe Val Arg Arg Leu Phe Trp Gly Ser Xaa  
 65 70 75 80

Gly Ala Xaa Thr Pro Leu Ala Glu Xaa Leu Arg Thr Xaa Ser Ala Ser  
 85 90 95

Ser Ser Asp Pro Val Ser Ala Pro Xaa Ser Leu Thr Ala Glu Xaa Xaa  
 100 105 110

Xaa Gln Pro Ser Ser Tyr Xaa Gly Thr Pro Arg Phe Leu Arg Ile Pro  
 115 120 125

Glu

<210> 6498

<211> 104

<212> PRT

<213> Homo sapiens

<400> 6498

Pro Arg Val Arg Glu Asp Glu Gln Phe Pro Ser Ile Pro Ala Leu Val  
 1 5 10 15

His Ser Tyr Met Thr Gly Arg Arg Pro Leu Ser Gln Ala Thr Gly Ala  
 20 25 30

Val Val Ser Arg Pro Val Thr Trp Gln Gly Pro Leu Arg Arg Ser Phe  
 35 40 45

Ser Glu Asp Thr Leu Met Asp Gly Pro Ala Arg Ile Glu Pro Ile Arg  
 50 55 60

Ala Arg Lys Trp Ser Asn Ser Gln Pro Ala Asp Leu Ala His Met Gly  
 65 70 75 80

Gln Ser Arg Glu Asp Pro Ala Gly Met Glu Ala Ser Thr Met Pro Ile  
 85 90 95

Ser Ala Leu Pro Arg Thr Ser Ser  
 100

<210> 6499

<211> 190

<212> PRT

<213> Homo sapiens

5748

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (57)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (120)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (123)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (174)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (181)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (185)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (186)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (187)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6499

Ala Ser Gly Thr Trp Asn Ala Pro Ala Gly Trp Cys Pro Gly Val Leu

1

5

10

15

Ser Pro Leu Leu Pro Thr Ser Ala Gly Pro Val Ser Ser Cys Ala Gln

20

25

30

Cys Gly Pro Val Ser Ala Pro Ala Ala Leu Ser Pro Pro His Ala Gly

35

40

45

## 5749

Ser Arg Pro Gly His Arg Ala Val Xaa Cys Phe Pro Thr Ala Ala Gly  
 50 55 60  
 Thr Ala Arg His Thr Gln Gly Leu Gly Arg Ala Gly Gly His Thr Ala  
 65 70 75 80  
 Trp Leu Ser Cys Ser Trp Ser Pro Ala Ser Pro Arg Arg Pro Gly Gly  
 85 90 95  
 Ser Ile Ser Gln Glu Ala Arg Ser Pro Pro Gly Gly Trp Ala Gln Pro  
 100 105 110  
 Arg Gln Met Asp Glu Lys Thr Xaa Lys Ala Xaa Glu Met Ala Leu Ser  
 115 120 125  
 Leu Thr Arg Ala Val Ala Gly Gly Asp Glu Gln Val Ala Met Lys Cys  
 130 135 140  
 Ala Ile Trp Leu Ala Glu Gln Arg Val Pro Leu Ser Val Gln Leu Lys  
 145 150 155 160  
 Pro Glu Val Ser Pro Thr Gln Asp Ile Arg Phe Leu Met Xaa Gln Asn  
 165 170 175  
 Gly His Ser Ser Xaa Ile Gln Pro Xaa Xaa Xaa Gln Gly Gly  
 180 185 190

&lt;210&gt; 6500

&lt;211&gt; 86

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 5750

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (53)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (67)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (69)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (72)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (74)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6500

Xaa	Ile	Pro	Ile	Leu	Asn	Pro	Phe	Xaa	Ile	Arg	Leu	Thr	Ile	Gly	Lys
1				5					10					15	

Ala	Gly	Thr	Pro	Ala	Gly	Thr	Gly	Pro	Glu	Phe	Pro	Gly	Arg	Pro	Thr
			20					25					30		

Arg	Xaa	Ala	Xaa	Lys	Gln	Ala	Gly	Gln	Lys	Lys	Lys	Gln	Gly	His	Asp
		35					40					45			

Xaa	Lys	Ala	Ala	Xaa	Lys	Ala	Ala	Leu	Ile	Tyr	Thr	Cys	Thr	Val	Cys
	50					55					60				

Arg	Thr	Xaa	Met	Xaa	Asp	Pro	Xaa	Thr	Xaa	Lys	Gln	His	Phe	Glu	Ser
65					70					75					80

Lys	His	Pro	Lys	Thr	Pro
					85

5751

&lt;210&gt; 6501

&lt;211&gt; 103

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (99)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6501

Gln Met Arg Val Lys Asp Pro Thr Lys Ala Leu Pro Glu Lys Ala Lys  
 1 5 10 15

Arg Ser Lys Arg Pro Thr Val Pro His Asp Glu Asp Ser Ser Asp Asp  
 20 25 30

Ile Ala Val Gly Leu Thr Cys Gln His Val Ser His Ala Ile Ser Val  
 35 40 45

Asn His Val Lys Arg Ala Ile Ala Glu Asn Leu Trp Ser Val Cys Ser  
 50 55 60

Glu Cys Leu Lys Glu Arg Gly Phe Tyr Asp Gly Gln Leu Val Leu Thr  
 65 70 75 80

Ser Asp Ile Trp Leu Cys Leu Lys Cys Gly Phe Gln Gly Cys Gly Lys  
 85 90 95

Asn Ser Xaa Ser Gln His Ser  
 100

&lt;210&gt; 6502

&lt;211&gt; 92

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6502

Ile Leu Lys Val Gly Ala Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly  
 1 5 10 15

Ile Ser Thr Pro Ser Phe Ser Ser Tyr Tyr Lys Gly Gly Phe Glu Gln  
 20 25 30

Lys Met Ser Arg Arg Glu Ala Gly Leu Ile Leu Gly Val Ser Pro Ser  
 35 40 45

5752

Ala Gly Lys Ala Lys Ile Arg Thr Ala His Arg Arg Val Met Ile Leu  
           50                          55                          60

Asn His Pro Asp Lys Gly Gly Ser Pro Tyr Val Ala Ala Lys Ile Asn  
       65                          70                          75                          80

Glu Ala Lys Asp Leu Leu Glu Thr Thr Thr Lys His  
                           85  90

&lt;210&gt; 6503

&lt;211&gt; 147

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (136)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6503

Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Glu Glu Ser Met Asn  
       1                          5                          10                          15

Glu Ser His Pro Arg Lys Cys Ala Glu Ser Phe Glu Met Trp Asp Asp  
                           20                          25                          30

Arg Asp Ser His Cys Arg Arg Pro Lys Phe Glu Gly His Pro Pro Glu  
                           35                          40                          45

Ser Trp Lys Trp Ile Leu Ala Pro Val Ile Leu Tyr Ile Cys Glu Arg  
       50                          55                          60

Ile Leu Arg Phe Tyr Arg Ser Gln Gln Lys Val Val Ile Thr Lys Val  
       65                          70                          75                          80

Val Met His Pro Ser Lys Val Leu Glu Leu Gln Met Asn Lys Arg Gly  
                           85                          90                          95

Phe Ser Met Glu Val Gly Gln Tyr Ile Phe Val Asn Cys Pro Ser Ile  
                           100                          105                          110

Ser Leu Leu Gly Met Ala Ser Phe Tyr Phe Asp Leu Cys Ser Arg Gly  
       115                          120                          125

Arg Phe Leu Leu His Ser Tyr Xaa Ser Ser Arg Gly Leu Asp Arg Lys  
       130                          135                          140

Ser Ile Arg

## 5753

145

&lt;210&gt; 6504

&lt;211&gt; 137

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6504

Glu Gly Asn Arg Ser Asp Val Thr Ser Val Lys Asp Ala Lys Ile Ala

1 5 10 15

Val Tyr Ser Cys Pro Phe Asp Gly Met Ile Thr Glu Thr Lys Gly Thr

20 25 30

Val Leu Ile Lys Thr Ala Glu Glu Leu Met Asn Phe Ser Lys Gly Glu

35 40 45

Glu Asn Leu Met Asp Ala Gln Val Lys Ala Ile Ala Asp Thr Gly Ala

50 55 60

Asn Val Val Val Thr Gly Gly Lys Val Ala Asp Met Ala Leu His Tyr

65 70 75 80

Ala Asn Lys Tyr Asn Ile Met Leu Val Arg Leu Asn Ser Lys Trp Asp

85 90 95

Leu Arg Arg Leu Cys Lys Thr Val Gly Ala Thr Ala Leu Pro Arg Leu

100 105 110

Thr Pro Pro Val Leu Glu Glu Met Gly His Cys Asp Ser Val Tyr Ser

115 120 125

Pro Glu Val Trp Arg Tyr Ser Gly Gly

130 135

&lt;210&gt; 6505

&lt;211&gt; 109

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 5754

<222> (6)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (30)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (42)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (48)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (57)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (61)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (99)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (108)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 6505  
 Leu Gln Leu Xaa Ser Xaa Gly Gly Lys Lys Arg Pro Leu Gly Phe Asn  
   1                  5                  10                  15  
  
 Pro Ala Pro Phe Gly Pro Lys Gly Phe Asn Pro Arg Gly Xaa Pro Pro  
                   20                  25                  30  
  
 Gly Lys Asn Phe Ser Pro Gly Gly Gly Xaa Arg Asn Pro Gln Thr Xaa  
           35                  40                  45  
  
 Pro Phe Pro Arg Gly Pro Gly Gly Xaa Pro Glu Thr Xaa Phe Gly Lys  
   50                  55                  60



## 5755

Lys Pro Pro Ile Gly Gly Pro Arg Ala Leu Pro Val Ser Gln Arg Glu  
 65 70 75 80  
 Thr Phe Ser Pro Thr Pro Lys Arg Thr Trp Phe Trp Gly Phe Leu Asn  
 85 90 95  
 Pro Gly Xaa Pro Thr Lys Thr Arg Val Cys Pro Xaa Ala  
 100 105

&lt;210&gt; 6506

&lt;211&gt; 133

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (32)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (132)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6506

Ala Ala Ala Glu His Arg Arg Gly Arg Lys Lys Asp Glu Val Arg Glu  
 1 5 10 15

Gly Ala Gly Phe Leu Glu Pro Gln Gly Ser Thr Glu Leu Ser Lys Xaa  
 20 25 30

Val Pro Val Asn Trp Glu Pro Pro Gln Pro Leu Pro Phe Pro Lys Tyr  
 35 40 45

Leu Arg Cys Tyr Arg Cys Leu Leu Glu Thr Lys Glu Leu Gly Cys Leu  
 50 55 60

Leu Gly Ser Asp Ile Cys Leu Thr Pro Ala Gly Ser Ser Cys Ile Thr  
 65 70 75 80

Leu His Lys Lys Asn Ser Ser Gly Ser Asp Val Met Val Ser Asp Cys  
 85 90 95

Arg Ser Lys Glu Gln Met Ser Asp Cys Ser Asn Thr Arg Thr Ser Pro  
 100 105 110

Val Ser Gly Phe Trp Ile Phe Ser Gln Tyr Cys Phe Leu Asp Phe Cys  
 115 120 125

5756

Asn Asp Pro Xaa Asn  
130

<210> 6507

<211> 45

<212> PRT

<213> Homo sapiens

<400> 6507

Ser Cys Thr Met Pro Ser Ser Ile Ile Thr Leu Lys Asn Gly Ile Gln  
1 5 10 15

Asn Met Leu Gln Phe Tyr Ile Pro Glu Val Glu Gly Val Glu Gln Val  
20 25 30

Met Asp Asp Glu Ser Asp Glu Lys Glu Ala Asn Ser Pro  
35 40 45

<210> 6508

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6508

Ser Ala Pro Lys Ala Pro Ala Thr Pro Gly Ala Gln Xaa Ala Pro Asp  
1 5 10 15

Val Arg Leu Leu Tyr Val Leu Ala Ile Ala Ala Leu Gly Gly Leu Cys  
20 25 30

Leu Ile Leu Ala Ser Ser Leu Leu Tyr Val Ala Cys Leu Arg Glu Gly  
35 40 45

Arg Arg Gly Arg Arg Arg Lys Tyr Ser Leu Gly Arg Ala Asn Xaa Gly  
50 55 60

Arg Arg Ile Cys Gly Ala Thr Ala

5758

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (77)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (78)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (109)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6510

Asn	Ser	Ala	Arg	Ala	Ser	Ala	Leu	Lys	Gln	Tyr	Xaa	Arg	Ser	Leu	Pro
1				5					10					15	

Glu	Pro	Leu	Met	Thr	Tyr	Glu	Leu	His	Gly	Asp	Phe	Ile	Val	Pro	Ala
			20					25					30		

Lys	Ser	Gly	Ser	Pro	Glu	Ser	Xaa	Val	Asn	Ala	Ile	His	Phe	Leu	Val
		35					40					45			

His	Lys	Leu	Pro	Glu	Lys	Asn	Lys	Glu	Met	Leu	Asp	Ile	Leu	Val	Lys
	50					55					60				

His	Leu	Thr	Asn	Val	Xaa	Asn	Xaa	Ser	Lys	Gln	Asn	Xaa	Xaa	Thr	Val
65					70					75					80

Ala	Asn	Leu	Gly	Val	Val	Phe	Gly	Pro	Thr	Leu	Met	Arg	Pro	Gln	Glu
				85					90					95	

Glu	Thr	Val	Ala	Ala	Leu	Met	Asp	Phe	Glu	Val	Ser	Xaa	Tyr	Cys	Cys
			100					105					110		

Gly	Lys	Ser
		115

&lt;210&gt; 6511

&lt;211&gt; 129

&lt;212&gt; PRT

&lt;213&gt; Homo. sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (103)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

5759

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (118)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6511

Thr	Gly	Asn	Lys	Met	Gln	Asp	Pro	Asn	Ala	Asp	Thr	Glu	Trp	Asn	Asp
1				5					10					15	

Ile	Leu	Arg	Lys	Lys	Gly	Ile	Leu	Pro	Pro	Lys	Glu	Ser	Leu	Lys	Glu
			20					25					30		

Leu	Glu	Glu	Glu	Ala	Glu	Glu	Glu	Gln	Arg	Ile	Leu	Gln	Gln	Ser	Val
		35					40					45			

Val	Lys	Thr	Tyr	Glu	Asp	Met	Thr	Leu	Glu	Glu	Leu	Glu	Asp	His	Glu
	50					55					60				

Asp	Glu	Phe	Asn	Glu	Glu	Asp	Glu	Arg	Ala	Ile	Glu	Met	Tyr	Arg	Arg
65					70					75					80

Arg	Arg	Leu	Ala	Glu	Trp	Lys	Ala	Thr	Lys	Leu	Lys	Asn	Lys	Phe	Gly
				85					90					95	

Glu	Val	Leu	Glu	Ile	Ser	Xaa	Lys	Asp	Tyr	Val	Gln	Glu	Val	Thr	Lys
		100						105					110		

Ala	Gly	Glu	Gly	Leu	Xaa	Val	Ile	Leu	His	Leu	Tyr	Asn	Gln	Gly	Ile
		115					120					125			

Pro

&lt;210&gt; 6512

&lt;211&gt; 110

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (96)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (101)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5760

&lt;400&gt; 6512

```

Phe Glu Lys Tyr Met Leu Thr Val Gln Tyr Phe Ser Ile Ile Phe Pro
 1             5             10             15

Leu Phe Tyr Arg Ala Asn Val Lys Pro Arg Asn Ser Thr Pro Pro Ser
          20             25             30

Leu Ala Arg Asn Pro Ala Pro Gly Val Leu Thr Asn Lys Arg Lys Thr
          35             40             45

Tyr Thr Glu Ser Tyr Ile Ala Arg Pro Asp Gly Asp Cys Ala Ser Ser
          50             55             60

Leu Asn Gly Gly Asn Ile Lys Gly Ile Glu Gly His Ser Pro Gly Asn
          65             70             75             80

Leu Pro Lys Phe Cys His Glu Cys Gly Thr Lys Tyr Pro Val Glu Xaa
          85             90             95

Ala Lys Phe Cys Xaa Glu Cys Gly Ile Arg Arg Met Ile Leu
          100             105             110

```

&lt;210&gt; 6513

&lt;211&gt; 75

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6513

```

Val Pro Ala Ala Gly Thr Pro Arg Ala Asn Gln Pro Gly Phe Arg Lys
 1             5             10             15

His Leu Gly Leu Leu Glu Lys Lys Lys Asp Tyr Lys Leu Arg Ala Asp
          20             25             30

Asp Tyr Arg Lys Lys Gln Glu Tyr Leu Arg Ala Leu Arg Lys Lys Ala
          35             40             45

Leu Glu Lys Asn Pro Asp Glu Phe Tyr Tyr Lys Met Thr Arg Val Lys
          50             55             60

Leu Gln Asp Gly Phe His Val Ile Glu Gly Asp
          65             70             75

```

&lt;210&gt; 6514

&lt;211&gt; 70

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

## 5761

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6514

Xaa	Val	Phe	Glu	Xaa	Xaa	Ala	Pro	Gly	Xaa	Tyr	Lys	Phe	Tyr	Leu	Gln
1				5					10					15	

Asn	Arg	Ser	Leu	Pro	Gln	Ser	Xaa	Pro	Val	Leu	Lys	Val	Thr	Leu	Ala
			20					25					30		

Val	Ser	Asp	Leu	Gln	Lys	Ser	Leu	Asn	Tyr	Trp	Cys	Tyr	Leu	Leu	Gly
		35					40				45				

Met	Lys	Ile	Tyr	Glu	Lys	Tyr	Tyr	Lys	Ser	Tyr	Arg	Ala	Cys	Leu	Gly
	50					55					60				

Phe	Leu	Lys	Asn	Pro	Cys
65				70	

&lt;210&gt; 6515

&lt;211&gt; 122

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

## 5762

&lt;222&gt; (77)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (81)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (99)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (103)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (116)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (122)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6515

Ser	Trp	Tyr	Pro	Cys	Arg	Tyr	Arg	Ser	Gly	Ile	Pro	Gly	Ser	Thr	His
1				5					10					15	

Ala	Ser	Val	Glu	Leu	Asn	Glu	Leu	Leu	Leu	Asp	Lys	Asn	Gln	Glu	Pro
			20						25				30		

Gln	Trp	Arg	Glu	Thr	Ala	Arg	Trp	Ile	Lys	Phe	Glu	Glu	Asp	Val	Asp
		35					40					45			

Glu	Asp	Ala	His	Asp	Ser	Glu	Ala	Lys	Val	Ala	Ser	Leu	Arg	Gly	Met
	50					55					60				

Glu	Leu	Gln	Gly	Cys	Ala	Ser	Thr	Gln	Val	Glu	Ser	Xaa	Asn	Asn	Gln
65					70					75					80

Xaa	Glu	Gln	Lys	Gln	Val	Arg	Leu	Pro	Glu	Ser	Arg	Leu	Thr	Pro	Trp
			85						90					95	

Glu	Val	Xaa	Phe	Ile	Gly	Xaa	Glu	Lys	Glu	Glu	Arg	Asp	Arg	Leu	His
			100					105					110		

Leu	Lys	Ala	Xaa	Glu	Glu	Leu	Asn	Gln	Xaa
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

## 5764

&lt;400&gt; 6517

Gly Gly Xaa Xaa Gly Xaa Pro Leu Tyr Leu His Leu Leu Met Ser Leu  
 1 5 10 15  
 His Arg Ala Arg Leu Glu Ser Ser Ser Thr Gly Ser Ser Phe Pro Ala  
 20 25 30  
 Asp Ser Ala Lys Pro Val Pro Leu Ala Val Val Ser Leu Asp Ser Arg  
 35 40 45

&lt;210&gt; 6518

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6518

Gly Asn Lys Ser Trp Ser Ser Thr Ala Val Thr Thr Ala Leu Glu Leu  
 1 5 10 15  
 Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Glu Gln Asn Gln Trp  
 20 25 30

&lt;210&gt; 6519

&lt;211&gt; 40

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6519

Ala Xaa Xaa Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala  
 1 5 10 15  
 Val Thr Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser  
 20 25 30



## 5765

Ala Arg Gly Tyr Thr Gly Asn Gly  
           35                          40

<210> 6520

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6520

Xaa Xaa His Xaa Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr  
       1                          5                          10                          15

Ala Val Xaa Ser Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn  
                           20                          25                          30

Ser Ala Arg Ser Ala Arg Ala Lys Asp Thr Asn Leu Val Phe Pro Gly  
           35                          40                          45

Ile Glu Gln Gln Ala Phe Gln Asp Cys His Pro  
       50                          55

<210> 6521

<211> 66

<212> PRT

<213> Homo sapiens

<220>

## 5766

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (47)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (52)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (57)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (65)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6521

Gly	Phe	Xaa	Xaa	Leu	Thr	Arg	Ile	Thr	Leu	Thr	Lys	Gly	Asn	Lys	Ser
1				5					10					15	

Trp	Ser	Ser	Thr	Ala	Val	Ala	Ala	Ala	Leu	Glu	Leu	Val	Asp	Pro	Pro
			20					25					30		

Gly	Cys	Arg	Asn	Ser	Ala	Arg	Ala	Leu	Ser	Arg	Pro	Phe	Ser	Xaa	Cys
		35					40						45		

Pro	Arg	Ala	Xaa	Thr	Ala	Pro	Arg	Xaa	Arg	Trp	Asn	Ala	Arg	Thr
	50					55				60				

Xaa	Gly
65	

&lt;210&gt; 6522

&lt;211&gt; 41

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

5767

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (39)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6522

Gly	Thr	Arg	Gly	Gly	Pro	Val	Pro	Asn	Ser	Pro	Tyr	Asn	Glu	Ser	Tyr
1				5				10					15		

Tyr	Asn	Ser	Leu	Ala	Val	Val	Leu	Gln	Xaa	Arg	Asp	Trp	Glu	Asn	Pro
			20				25						30		

Xaa	Thr	Xaa	Pro	Ser	Xaa	Xaa	Gly	Pro
			35				40	

&lt;210&gt; 6523

&lt;211&gt; 68

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

## 5768

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6523

Arg Xaa Gln Lys Leu Ala Xaa Pro Pro Gln Val Ala Ala Ala Leu Glu  
1 5 10 15

Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Ala Ala Arg Ala  
20 25 30

Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg Ile  
35 40 45

Thr Ile His Trp Pro Ser Phe Xaa Asn Val Val Thr Gly Lys Thr Gln  
50 55 60

Xaa Xaa Xaa Ile  
65

<210> 6524

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

## 5769

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6524

Leu	Val	Pro	Lys	Gly	Gly	Pro	Val	Pro	Asn	Ser	Pro	Tyr	Xaa	Glu	Ser
1				5					10					15	

Tyr	Tyr	Asn	Ser	Leu	Ala	Val	Val	Leu	Gln	Arg	Arg	Asp	Trp	Glu	Lys
			20					25					30		

Pro	Xaa	Xaa	Xaa
			35

&lt;210&gt; 6525

&lt;211&gt; 33

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (31)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (32)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6525

Ala	Ala	Arg	Gly	Gly	Pro	Gly	Thr	Asn	Ser	Pro	Tyr	Ser	Glu	Ser	Tyr
1				5				10					15		

Tyr	Asn	Ser	Leu	Ala	Val	Val	Leu	Asn	Val	Val	Thr	Gly	Pro	Xaa	Xaa
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

## 5770

20

25

30

Xaa

&lt;210&gt; 6526

&lt;211&gt; 54

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (52)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (53)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (54)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6526

Leu	Thr	Leu	Thr	Lys	Gly	Asn	Lys	Ser	Trp	Ser	Ser	Thr	Ala	Val	Ala
1				5					10					15	

Ala	Ala	Leu	Glu	Leu	Val	Gly	Ala	Arg	Tyr	Pro	Ile	Arg	Pro	Ile	Val
			20					25					30		

Ser	Arg	Ile	Thr	Ile	His	Trp	Pro	Ser	Phe	Tyr	Asn	Val	Val	Thr	Gly
		35					40					45			

Lys	Thr	Gln	Xaa	Xaa	Xaa
					50

&lt;210&gt; 6527

&lt;211&gt; 69

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

5771

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (42)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (58)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (60)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (61)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (63)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (65)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6527

Asp	Ser	Pro	Leu	Arg	Lys	Val	Pro	Ser	Leu	Lys	Gly	Asn	Lys	Ser	Gly
1				5					10					15	

Ser	Ser	Thr	Ala	Val	Xaa	Val	Val	Leu	Gln	Leu	Val	Asp	Pro	Pro	Gly
			20					25					30		

Cys	Arg	Asn	Ser	Val	Arg	Ala	Arg	Asp	Xaa	Pro	Met	Lys	Ser	Gly	Gly
		35					40					45			

Trp	Phe	Ile	His	Trp	Lys	Cys	Cys	Val	Xaa	Ala	Xaa	Xaa	Lys	Xaa	Thr
	50					55					60				

Xaa	Thr	Ser	Glu	Glu
	65			

&lt;210&gt; 6528

&lt;211&gt; 36

5772

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6528

Gly	Thr	Ser	Gly	Thr	Arg	Gly	Gly	Pro	Val	Pro	Asn	Ser	Pro	Tyr	Xaa
1				5				10						15	

Glu	Ser	Tyr	Tyr	Asn	Ser	Leu	Ala	Val	Val	Leu	Gln	Arg	Xaa	Asp	Trp
			20					25					30		

Glu	Thr	Xaa	Lys
			35

&lt;210&gt; 6529

&lt;211&gt; 68

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (68)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6529

Pro	Ser	Xaa	Lys	Arg	Asn	Lys	Ser	Trp	Ser	Ser	Thr	Ala	Val	Ala	Ala
1				5				10						15	

Ala	Leu	Glu	Leu	Val	Asp	Pro	Pro	Gly	Cys	Arg	Asn	Ser	Ala	Arg	Ala
			20					25					30		



## 5773

Ala Arg Ala Ala Arg Gly Gly Ala Arg Tyr Pro Ile Arg Pro Ile Val  
                   35                                  40                                  45

Ser Arg Ile Thr Ile His Trp Pro Ser Phe Tyr Asn Val Val Ile Pro  
                   50                                  55                                  60

Pro Lys Lys Xaa  
                   65

&lt;210&gt; 6530

&lt;211&gt; 33

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (32)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6530

Gly Thr Arg Gly Gly Pro Val Pro Asn Ser Pro Tyr Xaa Glu Ser Tyr  
           1                                  5                                  10                                  15

Tyr Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu Asn Xaa  
                                   20                                  25                                  30

Asn

&lt;210&gt; 6531

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

5774

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6531

Gly	Thr	Ser	Gly	Thr	Arg	Gly	Gly	Pro	Val	Pro	Asn	Ser	Pro	Tyr	Xaa
1				5				10						15	

Glu	Ser	Tyr	Xaa	Asn	Ser	Leu	Ala	Val	Val	Leu	Gln	Arg	Arg	Asp	Trp
			20					25					30		

Glu	Asn	Pro	Xaa
			35

&lt;210&gt; 6532

&lt;211&gt; 61

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 5775

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (50)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6532

Gly Xaa Ile Trp Xaa Xaa Ser Thr Lys Lys Trp Arg Phe Ala Leu Glu

1

5

10

15

Leu Val Asp Pro Pro Gly Cys Arg Asn Pro Ala Arg Ala Xaa Thr Arg

20

25

30

Gly Gly Pro Val Pro Xaa Ser Pro Tyr Ser Glu Ser Xaa Tyr Asn Ser

35

40

45

Leu Xaa Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro

50

55

60

&lt;210&gt; 6533

&lt;211&gt; 49

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 5776

&lt;222&gt; (37)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6533

Ser	Lys	Val	Ser	Ser	Xaa	Ile	Lys	Gly	Thr	Xaa	Gly	Pro	Ala	Pro	Xaa
1				5				10						15	

Lys	Val	Ala	Phe	Ala	Leu	Glu	Leu	Val	Asp	Pro	Pro	Gly	Cys	Arg	Asn
		20					25						30		

Pro	Xaa	Arg	Ala	Xaa	Xaa	Gly	Gly	Ala	Arg	Phe	Pro	Ile	Arg	Pro	Ile
		35					40					45			

Xaa

&lt;210&gt; 6534

&lt;211&gt; 41

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (40)

## 5777

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6534

Gly	Thr	Arg	Gly	Gly	Pro	Val	Pro	Asn	Ser	Pro	Tyr	Xaa	Glu	Ser	Tyr
1				5				10					15		

Tyr	Asn	Ser	Leu	Ala	Val	Val	Leu	Gln	Arg	Leu	Asp	Trp	Glu	Asn	Pro
			20					25					30		

Asn	Xaa	Phe	Leu	Cys	Xaa	Phe	Xaa	Xaa
			35				40	

<210> 6535

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6535

Gly	Thr	Ser	Gly	Thr	Arg	Gly	Gly	Pro	Val	Pro	Asn	Ser	Pro	Tyr	Xaa
1				5				10						15	

Glu	Ser	Tyr	Tyr	Asn	Ser	Leu	Ala	Val	Val	Leu	Gln	Arg	Arg	Asp	Trp
			20					25					30		

Glu	Asn	Pro	Lys
			35

<210> 6536

<211> 40

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

5778

<220>  
<221> SITE  
<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (17)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6536  
Xaa Gly Thr Xaa Gly Thr Arg Gly Gly Pro Val Pro Asn Ser Pro Tyr  
1 5 10 15  
Xaa Glu Ser Tyr Tyr Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp  
20 25 30  
Trp Glu Asn Pro Xaa Xaa Phe Pro  
35 40

<210> 6537  
<211> 62  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (10)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

5779

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (55)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6537

Leu Lys Ala Pro Xaa Gly Thr Arg Gly Xaa Arg Arg Ser Ile Ser Ser  
1 5 10 15

Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Ser Gly Pro Arg Gly Gly  
20 25 30

Pro Val Pro Ser Ser Xaa Phe Ser Glu Ser Tyr Tyr Asn Ser Leu Ala  
35 40 45

Val Val Leu Gln Arg Arg Xaa Trp Glu Asn Pro Cys Leu Leu  
50 55 60

&lt;210&gt; 6538

&lt;211&gt; 80

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5780

<220>  
<221> SITE  
<222> (76)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (77)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (78)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (79)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6538  
Arg Arg Xaa Gly Glu Xaa Cys Ser Xaa Ile Asn Pro Gln Ile Xaa Gly  
1 5 10 15  
Lys Lys Ile Trp Ser Ser Thr Ala Val Ala Asp Ala Leu Xaa Leu Val  
20 25 30  
Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Ala Ala Arg Gly Gly Ala  
35 40 45  
Arg Tyr Pro Ile Arg Pro Ile Val Ser Arg Ile Thr Ile His Trp Pro  
50 55 60  
Ser Phe Tyr Asn Val Val Thr Gly Lys Thr Gln Xaa Xaa Xaa Xaa Gly  
65 70 75 80

<210> 6539  
<211> 48  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1)  
<223> Xaa equals any of the naturally occurring L-amino acids



## 5781

<220>  
<221> SITE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (46)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (47)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (48)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6539  
Xaa Gly Xaa Glu Gly Tyr Ile Arg Leu Ala Xaa Gln Leu Thr Leu Xaa  
1 5 10 15  
Asn Gly Asn Lys Thr Trp Ser Ser Thr Ala Val Ala Ala Ala Leu Glu  
20 25 30  
Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Gly Xaa Xaa Xaa  
35 40 45

<210> 6540  
<211> 107  
<212> PRT  
<213> Homo sapiens

<220>

5782

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (64)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (95)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (100)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (102)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6540

Phe	Xaa	Ser	Pro	Gly	Cys	Arg	Asn	Ser	Ile	Ser	Ser	Leu	Ser	Ile	Pro
1				5					10					15	

Xaa	Thr	Ser	Arg	Gly	Gly	Pro	Val	Pro	Asn	Ser	Pro	Tyr	Ser	Glu	Ser
			20					25					30		

Tyr	Tyr	Asn	Ser	Leu	Ala	Val	Val	Leu	Gln	Arg	Arg	Asp	Trp	Glu	Asn
		35					40					45			

Pro	Gly	Val	Thr	Gln	Leu	Asn	Arg	Leu	Ala	Ala	Gln	Ser	Pro	Phe	Xaa
	50					55					60				

Gln	Leu	Gly	Val	Ile	Ser	Glu	Glu	Ala	Arg	Thr	Asp	Arg	Pro	Ser	Gln
65					70					75					80

Gln	Leu	Arg	Ser	Leu	Asn	Gly	Glu	Trp	Asp	Ala	Pro	Cys	Ser	Xaa	Ala
				85					90					95	

Leu	Ser	Ala	Xaa	Val	Xaa	Trp	Leu	Pro	Ala	Val
			100				105			

5783

&lt;210&gt; 6541

&lt;211&gt; 68

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6541

Xaa	Lys	Val	Xaa	Ala	Thr	Arg	Thr	Lys	Gly	Asn	Lys	Ser	Trp	Ser	Ser
1				5					10					15	

Thr	Ala	Val	Ala	Ala	Ala	Leu	Glu	Leu	Val	Asp	Pro	Pro	Gly	Cys	Arg
			20					25					30		

Asn	Ser	Ala	Arg	Asp	Phe	Gln	Val	Asp	Phe	Ser	Ala	Ser	Ser	Lys	Thr
		35					40					45			

Asp	Cys	Phe	Phe	Ser	Gly	Leu	Thr	Leu	Cys	Gly	Phe	Phe	Phe	Phe	Ser
	50					55					60				

Leu	Asn	Leu	Ile
65			

&lt;210&gt; 6542

&lt;211&gt; 110

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

5784

<221> SITE  
<222> (39)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (42)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (60)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (66)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (67)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (73)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (74)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (84)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (89)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6542  
Thr Ala Ala Ala Ala Ala Xaa Glu Leu Gly Asp Xaa Pro Gly Cys Arg  
1 5 10 15  
Asn Ser Ile Ser Ser Leu Ser Ile Pro Ser Thr Ser Arg Gly Gly Pro  
20 25 30

## 5785

Val Pro Asn Ser Pro Tyr Xaa Glu Ser Xaa Tyr Asn Ser Leu Ala Val  
           35                          40                          45  
 Gly Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Xaa Thr Gln Leu Asn  
           50                          55                          60  
 Arg Xaa Xaa Gly His Pro Pro Phe Xaa Xaa Trp Arg Asn Ser Glu Glu  
       65                          70                          75                          80  
 Ala Arg Thr Xaa Arg Leu Pro Thr Xaa Ala Gln Pro Glu Trp Arg Met  
                           85                          90                          95  
 Gly Arg Ala Leu Tyr Gly Ala Leu Ser Arg Gly Gly Cys Gly  
           100                          105                          110

<210> 6543

<211> 166

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (139)

<223> Xaa equals any of the naturally occurring L-amino acids

## 5786

<220>  
<221> SITE  
<222> (140)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (143)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (144)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (145)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (147)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (149)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (153)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (154)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (155)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (158)  
<223> Xaa equals any of the naturally occurring L-amino acids

5787

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (165)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6543

Asn	Ser	Ala	Arg	Gly	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Glu	Phe	Thr
1				5				10					15		

Leu	Thr	Ile	Ser	Ser	Leu	Gln	Ala	Glu	Asp	Val	Ala	Ala	Tyr	Ser	Cys
			20					25					30		

Gln	Gln	Tyr	Tyr	Ser	Phe	Pro	Phe	Thr	Phe	Gly	Pro	Gly	Thr	Lys	Val
		35					40					45			

Asp	Ile	Lys	Arg	Thr	Val	Ala	Ala	Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro
	50					55					60				

Ser	Asp	Glu	Gln	Leu	Lys	Ser	Gly	Thr	Ala	Ser	Val	Val	Cys	Leu	Leu
65					70					75					80

Asn	Asn	Phe	Tyr	Pro	Xaa	Glu	Ala	Lys	Val	Gln	Trp	Lys	Val	Asp	Asn
				85					90					95	

Xaa	Leu	Gln	Ser	Gly	Asn	Xaa	Gln	Glu	Ser	Val	Thr	Glu	Gln	Asp	Ser
		100					105						110		

Lys	Asp	Arg	Xaa	Thr	Ala	Ser	Ala	Ala	Pro	Asp	Gly	Glu	Gln	Ser	Arg
		115					120					125			

Xaa	Gly	Glu	His	Lys	Phe	Arg	Leu	Arg	Val	Xaa	Xaa	Gln	Gly	Xaa	Xaa
	130					135					140				

Xaa	Arg	Xaa	Lys	Xaa	Leu	Thr	Gly	Xaa	Xaa	Xaa	Gly	Glu	Xaa	Pro	Leu
145					150				155						160

Phe	Leu	Phe	Ser	Xaa	Pro
				165	

&lt;210&gt; 6544

&lt;211&gt; 143

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (53)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5788

&lt;400&gt; 6544

Val Lys Ile Thr Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Tyr  
 1 5 10 15  
 Cys Met Gln Ala Leu Gln Thr Pro Phe Thr Phe Gly Pro Gly Thr Lys  
 20 25 30  
 Val Asp Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro  
 35 40 45  
 Pro Ser Asp Glu Xaa Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu  
 50 55 60  
 Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp  
 65 70 75 80  
 Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp  
 85 90 95  
 Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys  
 100 105 110  
 Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln  
 115 120 125  
 Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys  
 130 135 140

&lt;210&gt; 6545

&lt;211&gt; 157

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (54)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;



## 5789

<221> SITE  
<222> (71)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (73)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (78)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (102)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (108)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (115)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (117)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (118)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (120)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (133)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

## 5790

&lt;222&gt; (139)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (141)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (145)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (150)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6545

Ser	Cys	Arg	Ile	Arg	His	Glu	Val	Leu	Arg	Gly	Pro	Leu	Leu	Gly	His
1				5					10					15	

Thr	Asp	Ala	Val	Trp	Gly	Leu	Ala	Tyr	Ser	Ala	Xaa	His	Gln	Arg	Leu
			20					25					30		

Leu	Ser	Cys	Ser	Ala	Xaa	Gly	Thr	Leu	Arg	Leu	Trp	Asn	Thr	Thr	Glu
		35					40					45			

Val	Ala	Pro	Ala	Leu	Xaa	Val	Phe	Asn	Asp	Thr	Lys	Glu	Leu	Gly	Ile
	50					55					60				

Pro	Ala	Ser	Val	Asp	Leu	Xaa	Ser	Xaa	Asp	Pro	Ser	His	Xaa	Val	Ser
65					70					75				80	

Ser	Phe	Ser	Lys	Gly	Tyr	Thr	Asn	Ile	Phe	Asn	Met	Glu	Thr	Gln	Gln
				85					90					95	

Arg	Ile	Leu	Thr	Leu	Xaa	Ser	Asn	Val	Ile	Gln	Xaa	Pro	Thr	Leu	Pro
			100					105					110		

Ala	Lys	Xaa	Ile	Xaa	Xaa	Ile	Xaa	Leu	Leu	Leu	Phe	Arg	Ser	Thr	Ser
		115						120				125			

Cys	Ser	Leu	Lys	Xaa	Ala	Ile	Gln	Phe	Tyr	Xaa	Asn	Xaa	Ser	Gly	Lys
		130					135				140				

Xaa	Ser	Leu	His	Gly	Xaa	Pro	Leu	Lys	Leu	Phe	Gln	Phe
145						150					155	

## 5791

&lt;210&gt; 6546

&lt;211&gt; 69

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6546

Lys Trp Arg Leu Arg Ser Ala Pro Ala Glu Glu Gly Glu Ala Gly Gly  
1 5 10 15

Val Ser Val Leu Pro Val Cys Ser Thr Ala Pro Ala Ser Arg Thr Pro  
20 25 30

Pro Ala His Ala Asp Phe Pro Ser Ser Ala Arg Leu Ser Leu Val Leu  
35 40 45

Val Cys Ala Pro His Ala Pro Gly Arg Leu Val Ser His Cys Pro Ala  
50 55 60

Arg Leu Arg Trp Pro  
65

&lt;210&gt; 6547

&lt;211&gt; 89

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

## 5792

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6547

Leu	Arg	Ala	Asp	Xaa	Xaa	Lys	Leu	Xaa	His	Gln	Glu	Arg	Thr	Gln	Xaa
1				5				10						15	

Leu	Arg	Gln	Ala	Pro	Val	Gly	Xaa	Gly	Tyr	Phe	His	Leu	Leu	Asp	His
		20					25						30		

Lys	Xaa	Xaa	Ala	Xaa	Cys	Xaa	Ala	Asp	Phe	Arg	Gly	His	Trp	Val	Leu
	35					40						45			

Ile	Phe	Phe	Gly	Phe	Thr	His	Cys	Pro	Asp	Ile	Cys	Pro	Gln	Gln	Leu
	50					55					60				

Glu	Lys	Leu	Val	Gln	Val	Val	Arg	Glu	Leu	Xaa	Thr	Xaa	Leu	Val	Phe
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

5793

65

70

75

80

Leu Gln Xaa Thr Cys Leu His His Cys  
85

&lt;210&gt; 6548

&lt;211&gt; 61

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (48)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (53)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (59)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5794

&lt;400&gt; 6548

Gly	Leu	Xaa	Phe	Xaa	Gly	Met	His	Xaa	Met	Ala	Xaa	Thr	His	Trp	Pro
1				5					10					15	

Cys	Pro	Trp	Pro	Ala	Leu	Met	Thr	Arg	Trp	Thr	Val	Ser	Leu	Arg	Ala
			20					25					30		

Pro	Xaa	Leu	Ala	Gln	Leu	Ser	Asp	Val	Ala	Met	His	Ser	Leu	Gly	Xaa
		35					40					45			

Ala	Phe	Ile	Tyr	Xaa	Gln	Thr	Asp	Asp	Ile	Xaa	Asp	Val
	50					55					60	

&lt;210&gt; 6549

&lt;211&gt; 185

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (19)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (27)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (29)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5795

<220>  
<221> SITE  
<222> (30)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (35)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (63)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (71)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (74)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (96)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (97)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (103)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (108)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (113)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

## 5796

<221> SITE  
<222> (120)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (125)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (128)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (133)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (137)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (140)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (142)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (145)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (147)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (148)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE



## 5797

&lt;222&gt; (150)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (154)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (171)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (181)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6549

Met	Arg	Pro	Glu	Val	Met	Ser	His	Lys	Xaa	Xaa	Ser	Ala	Pro	Arg	His
1				5					10					15	

Gly	Ser	Xaa	Xaa	Phe	Leu	Pro	Arg	Lys	Arg	Xaa	Thr	Xaa	Xaa	Arg	Gly
			20					25					30		

Lys	Val	Xaa	Ile	Phe	Pro	Lys	Asp	Asp	Pro	Ser	Lys	Pro	Val	His	Leu
		35					40					45			

Thr	Ser	Phe	Leu	Gly	Tyr	Lys	Ala	Gly	Met	Thr	His	Ile	Val	Xaa	Glu
	50					55					60				

Val	Asp	Arg	Pro	Gly	Ser	Xaa	Val	Asn	Xaa	Lys	Glu	Val	Val	Glu	Ala
65					70					75					80

Val	Thr	Ile	Val	Glu	Thr	Pro	Pro	Met	Val	Val	Val	Gly	Ile	Val	Xaa
				85					90					95	

Xaa	Met	Lys	Thr	Pro	Arg	Xaa	Leu	Arg	Thr	Phe	Xaa	Thr	Val	Phe	Ala
			100					105					110		

Xaa	His	Ile	Ser	Asp	Glu	Cys	Xaa	Arg	Arg	Phe	Tyr	Xaa	Asn	Trp	Xaa
		115						120					125		

Ser	Ser	Asn	Asn	Xaa	Ala	Phe	Thr	Xaa	Tyr	Cys	Xaa	Lys	Xaa	Gln	Asp
		130				135						140			

Xaa	Asp	Xaa	Xaa	Lys	Xaa	Leu	Gly	Glu	Xaa	Leu	Gln	Gln	His	Glu	Lys
145					150					155					160

Ile	Cys	Pro	Val	Ile	Arg	Val	Ile	Ala	His	Xaa	Gln	Asp	Ser	Pro	Ala
				165					170						175

5798

Ser Ser Ala Pro Xaa Lys Lys Ala Thr  
180 185

&lt;210&gt; 6550

&lt;211&gt; 39

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (19)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (31)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6550

Ala Ala Val Gly Phe Phe Leu Gly Ile Val Trp Ser Gly Ala Gly Thr  
1 5 10 15

Gln Leu Xaa Phe Gly Glu Arg Pro Ala Xaa Lys Met Ile Gly Xaa Asn  
20 25 30

Ser Pro Leu Leu Val Gly Leu  
35

&lt;210&gt; 6551

&lt;211&gt; 33

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

5799

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6551

Gly	Ile	Pro	Lys	Ala	Asp	Ile	Thr	Trp	Glu	Leu	Pro	Asp	Lys	Xaa	His
1				5					10					15	

Leu	Lys	Ala	Xaa	Val	Gln	Ala	Arg	Xaa	Tyr	Gly	Asn	Xaa	Phe	Leu	Xaa
				20				25					30		

Pro

<210> 6552

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

## 5800

<222> (36)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (39)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (47)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (49)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (58)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (62)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (63)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (66)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6552  
Cys Val Phe Gln Gln Ile Tyr His Asn Tyr Leu Met Cys Ile Ser Xaa  
1 5 10 15  
Xaa Tyr His Asn Tyr Val Met Cys Ile Ser Thr Ile Cys His Ser Xaa  
20 25 30  
Leu Ile Cys Xaa Ser Lys Xaa His Ala Val Leu Ala Leu His Xaa Asn  
35 40 45  
Xaa Glu Thr Ile Arg Asn His His Thr Xaa Glu Thr Leu Xaa Xaa Gln  
50 55 60

## 5801

Cys Xaa Ile Ile Ser Glu Arg Lys Leu Leu Phe Cys His Leu Tyr Ile  
 65 70 75 80

Phe Met

<210> 6553

<211> 130

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6553

Asn Pro Thr Ser Leu Leu Gly Xaa Phe Gly Tyr Arg Pro Pro Pro Ala  
 1 5 10 15

Val Phe Trp Arg Ala Ala Ala Ile Gly Pro Tyr Ala Thr Leu Met Pro  
 20 25 30

Val Gly Leu Gln Gln Gly Pro Gln Ser Asp Gln Glu Leu Glu Gln Ala  
 35 40 45

Pro Gly Thr Ala Arg Arg Arg Gly Arg Leu Thr Lys His Thr Lys Phe  
 50 55 60

Val Arg Asp Met Ile Arg Glu Val Cys Gly Phe Ala Pro Tyr Glu Arg  
 65 70 75 80

Arg Ala Met Glu Leu Leu Lys Val Ser Lys Asp Lys Arg Ala Leu Lys  
 85 90 95

Phe Ile Lys Lys Arg Val Gly Thr His Ile Arg Ala Lys Arg Lys Arg  
 100 105 110

Glu Glu Leu Ser Asn Val Leu Ala Ala Met Arg Lys Ala Ala Ala Lys  
 115 120 125

Lys Asp  
 130

<210> 6554

<211> 79

<212> PRT

## 5802

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

## 5803

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (61)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (68)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (72)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (75)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6554

Ser	Arg	Arg	Ser	Xaa	Leu	Gly	Ala	Ala	Xaa	Xaa	Gln	Ser	Val	Glu	Glu
1				5					10					15	

Arg	Ala	Xaa	Glu	Xaa	Pro	Ser	Cys	Leu	Gly	Thr	Leu	Arg	Xaa	Val	Ser
			20					25					30		

Ala	Val	Trp	Xaa	Thr	Asn	Arg	Phe	Xaa	Xaa	Leu	Xaa	Asn	Asp	Val	Ser
		35					40					45			

Asp	Pro	Phe	Glu	Gly	Ala	Glu	Gly	Ser	Gln	Arg	Thr	Xaa	Lys	Lys	Lys
	50					55					60				

Pro	Gly	Gly	Xaa	Arg	Arg	Leu	Xaa	Ala	Leu	Xaa	Ser	Ser	Cys	Ala
65					70					75				

&lt;210&gt; 6555

&lt;211&gt; 69

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6555

Ser	Leu	Asp	Arg	Val	Ser	Val	Pro	Met	Trp	Gly	Thr	Phe	Leu	Ser	Glu
1				5					10				15		

Pro	Leu	Ser	Ile	Glu	Gly	Leu	Val	Gly	Arg	Tyr	Leu	Thr	Asn	Asn	Leu
			20					25					30		

## 5804

Met Glu Arg Ile Pro Ile Leu Tyr Arg Asn Pro Leu Ile Ile Arg Pro  
                   35                  40                  45

Cys Gly Met Ile Ile Pro Ser Gly Ile Asn Leu Ser Phe Glu Arg Leu  
           50                  55                  60

Ser Pro Ser Lys Gly  
       65

<210> 6556

<211> 178

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (165)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (166)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (167)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6556

Ile Thr Met Asp Trp Gln Ser Ile Lys Ile Gln Glu Leu Met Ser Asp  
       1                  5                  10                  15

Asp Gln Arg Glu Ala Gly Arg Ile Pro Arg Thr Ile Glu Cys Glu Leu  
                   20                  25                  30

Val His Asp Leu Val Asp Ser Cys Val Pro Gly Asp Thr Val Thr Ile  
           35                  40                  45



## 5805

Thr	Gly	Ile	Val	Lys	Val	Ser	Asn	Ala	Glu	Glu	Gly	Ser	Arg	Asn	Lys
50						55					60				
Asn	Asp	Lys	Cys	Met	Phe	Leu	Leu	Tyr	Ile	Glu	Ala	Asn	Ser	Ile	Ser
65					70					75					80
Asn	Ser	Lys	Gly	Gln	Lys	Thr	Lys	Ser	Ser	Glu	Asp	Gly	Cys	Lys	His
				85					90					95	
Gly	Met	Leu	Met	Glu	Phe	Ser	Leu	Lys	Asp	Leu	Tyr	Ala	Ile	Gln	Glu
			100					105					110		
Ile	Gln	Ala	Glu	Glu	Asn	Leu	Phe	Lys	Leu	Ile	Val	Asn	Ser	Leu	Cys
	115						120					125			
Pro	Val	Ile	Phe	Gly	His	Glu	Ala	Ala	Cys	Asn	Val	Ala	Pro	Arg	Gly
	130					135					140				
Val	Tyr	Xaa	Cys	Gly	Asn	Thr	Thr	Thr	Thr	Phe	Gly	Leu	Thr	Val	Thr
145					150					155					160
Leu	Ser	Lys	Asp	Xaa	Xaa	Xaa	Gly	Xaa	Phe	Ala	Phe	Gly	Thr	Trp	Cys
				165					170					175	

Pro Trp

&lt;210&gt; 6557

&lt;211&gt; 69

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (51)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 5806

&lt;222&gt; (64)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (66)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (69)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6557

Arg	Ser	Met	Thr	Val	Glu	Pro	Asn	Pro	Phe	Gln	Arg	Lys	Val	Leu	Xaa
1				5					10					15	

Lys	Gly	Phe	Glu	Pro	Ala	Asp	Asn	Lys	Xaa	Leu	Leu	Arg	Ala	Thr	Asp
			20					25					30		

Gly	Lys	Lys	Lys	Ile	Ser	Thr	Val	Val	Ser	Ser	Lys	Glu	Val	Asn	Lys
		35					40					45			

Phe	Gln	Xaa	Ala	Tyr	Ser	Asn	Leu	Leu	Arg	Ala	Asn	Met	Asp	Gly	Xaa
		50				55					60				

Lys	Xaa	Arg	Asp	Xaa
	65			

&lt;210&gt; 6558

&lt;211&gt; 24

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6558

His	Ile	Pro	Ser	Pro	Ala	Lys	Lys	Val	Pro	Arg	Leu	Pro	Ala	Thr	Ala
1				5					10					15	

Ala	Glu	Pro	Glu	Ser	Ser	Cys	His
			20				

&lt;210&gt; 6559

&lt;211&gt; 178

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

## 5807

&lt;221&gt; SITE

&lt;222&gt; (145)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (151)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (173)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (176)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (177)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6559

Trp	Arg	Leu	Met	Ser	Arg	Phe	Asn	Ala	Phe	Lys	Arg	Thr	Asn	Thr	Ile
1				5					10					15	

Leu	His	His	Leu	Arg	Met	Ser	Lys	His	Thr	Asp	Ala	Ala	Glu	Glu	Val
			20					25					30		

Leu	Leu	Glu	Lys	Lys	Gly	Cys	Ala	Gly	Val	Ile	Thr	Leu	Asn	Arg	Pro
		35					40					45			

Lys	Phe	Leu	Asn	Ala	Leu	Thr	Leu	Asn	Met	Ile	Arg	Gln	Ile	Tyr	Pro
	50					55					60				

Gln	Leu	Lys	Lys	Trp	Glu	Gln	Asp	Pro	Glu	Thr	Phe	Leu	Ile	Ile	Ile
65					70					75				80	

Lys	Gly	Ala	Gly	Gly	Lys	Ala	Phe	Cys	Ala	Gly	Gly	Asp	Ile	Arg	Val
			85						90					95	

Ile	Ser	Glu	Ala	Glu	Lys	Ala	Lys	Gln	Lys	Ile	Ala	Pro	Val	Phe	Phe
		100						105					110		

Arg	Glu	Glu	Tyr	Met	Leu	Asn	Asn	Ala	Val	Gly	Ser	Cys	Gln	Lys	Pro
		115						120					125		

Tyr	Val	Ala	Leu	Ile	His	Gly	Ile	Thr	Met	Gly	Gly	Gly	Val	Gly	Leu
		130					135					140			

5808

Xaa Val His Gly Gln Phe Xaa Val Ala Thr Glu Lys Val Ser Phe Cys  
 145 150 155 160

Tyr Ala Arg Asn Cys Asn Arg Thr Gly Pro Leu Met Xaa Gly Gly Xaa  
 165 170 175

Xaa Phe

<210> 6560

<211> 86

<212> PRT

<213> Homo sapiens

<400> 6560

Phe Gly Arg Ala Asp Ser Glu Arg Gln Asn Gln Glu Tyr Gln Arg Leu  
 1 5 10 15

Met Asp Ile Lys Ser Arg Leu Glu Gln Glu Ile Ala Ile Tyr Arg Ser  
 20 25 30

Leu Leu Glu Gly Gln Glu Asp His Ser Gln Gln Phe Val Cys Leu Gln  
 35 40 45

Gly Pro Leu Arg Gln Gln Ala Leu Gly Leu Leu Leu Ser Phe Gly Gly  
 50 55 60

Cys Leu Leu Gly Arg Gly Met Gly Arg Lys Gly Pro Leu Pro Pro Ala  
 65 70 75 80

Leu Leu Leu Thr Cys Gln  
 85

<210> 6561

<211> 165

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

## 5809

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6561

Thr	His	Tyr	Xaa	Gly	Xaa	Ala	Gly	Xaa	Pro	Ala	Gly	Thr	Gly	Pro	Glu
1				5					10					15	

Phe	Pro	Gly	Arg	Pro	Xaa	Arg	Pro	Xaa	Glu	Gln	Asn	Arg	Lys	Asp	Ala
			20					25					30		

Glu	Ala	Trp	Phe	Thr	Ser	Arg	Thr	Glu	Glu	Leu	Asn	Arg	Glu	Val	Ala
		35					40					45			

Gly	His	Thr	Glu	Gln	Leu	Gln	Met	Ser	Arg	Ser	Glu	Val	Thr	Asp	Leu
	50					55					60				

Arg	Arg	Thr	Leu	Gln	Gly	Leu	Glu	Ile	Glu	Leu	Gln	Ser	Gln	Leu	Ser
65					70					75					80

Met	Lys	Ala	Ala	Leu	Glu	Asp	Thr	Leu	Ala	Glu	Thr	Glu	Ala	Arg	Phe
				85					90					95	

Gly	Ala	Gln	Leu	Ala	His	Ile	Gln	Ala	Leu	Ile	Ser	Gly	Ile	Glu	Ala
		100						105					110		

Gln	Leu	Gly	Asp	Val	Arg	Ala	Asp	Ser	Glu	Arg	Gln	Asn	Gln	Glu	Tyr
		115					120					125			

Gln	Arg	Leu	Met	Asp	Ile	Lys	Ser	Arg	Leu	Glu	Gln	Glu	Ile	Ala	Thr
	130					135					140				

Tyr	Arg	Ser	Leu	Leu	Glu	Gly	Gln	Glu	Asp	His	Tyr	Asn	Asn	Leu	Ser
145					150					155					160

Ala	Ser	Lys	Val	Leu
				165

5810

&lt;210&gt; 6562

&lt;211&gt; 180

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (82)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (87)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (89)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6562

Asp	Lys	Xaa	Glu	Thr	Trp	Arg	Glu	Val	Tyr	Leu	Gln	Asp	Ser	Phe	Lys
1				5					10					15	

Pro	Leu	Val	Cys	Ile	Ser	Pro	Asn	Ala	Ser	Leu	Phe	Asp	Ala	Val	Ser
		20						25					30		

Ser	Leu	Ile	Arg	Asn	Lys	Ile	His	Arg	Leu	Pro	Val	Ile	Asp	Pro	Glu
		35					40						45		

Ser	Gly	Asn	Thr	Leu	Tyr	Ile	Leu	Thr	His	Lys	Arg	Ile	Leu	Lys	Phe
	50					55					60				

Leu	Lys	Leu	Phe	Ile	Thr	Glu	Phe	Pro	Lys	Pro	Glu	Phe	Met	Ser	Lys
65					70					75					80

Ser	Xaa	Glu	Lys	Leu	Pro	Xaa	Trp	Xaa	Leu	Cys	Gln	Tyr	Cys	Tyr	Gly
				85					90					95	

Ser	Thr	Thr	Thr	Pro	Val	Tyr	Val	Ala	Leu	Gly	Ile	Phe	Val	Gln	His
			100					105					110		

Arg	Val	Ser	Ala	Leu	Pro	Val	Val	Asp	Glu	Lys	Gly	Arg	Val	Val	Asp
		115					120					125			

## 5811

Ile Tyr Ser Lys Phe Asp Val Ile Asn Leu Ala Ala Glu Lys Thr Tyr  
 130 135 140

Asn Asn Leu Asp Val Ser Val Thr Lys Ala Leu Gln His Arg Ser His  
 145 150 155 160

Tyr Phe Glu Gly Val Leu Lys Cys Tyr Leu His Glu Thr Trp Arg Pro  
 165 170 175

Ser Leu Thr Gly  
 180

<210> 6563

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6563

Asn Ser Ala Xaa Val Ala Arg Thr Ile Gly Ile Ser Val Asp Pro Arg  
 1 5 10 15

Arg Arg Asn Lys Ser Thr Glu Ser Xaa Gln Ala Asn Val Gln Xaa Leu  
 20 25 30

5812

Lys Glu Tyr Arg Ser Lys Leu Ile Leu Phe Xaa Arg Xaa Pro Ser Ala  
35 40 45

Pro Lys Lys Gly Asp Ser Ser Ala Glu Glu Leu Arg Thr Gly Pro Pro  
50 55 60

Ser  
65

<210> 6564

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids



## 5813

<220>  
<221> SITE  
<222> (33)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (36)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (40)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (49)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (50)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (55)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (60)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (67)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (74)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (77)  
<223> Xaa equals any of the naturally occurring L-amino acids

## 5814

&lt;400&gt; 6564

```

His Arg Asn His Leu Gly Xaa Xaa His Gly Lys Ile Ser Ser Gly Gly
 1             5             10             15

Xaa Ser His Thr Xaa Xaa Ile Pro Met Xaa Leu Val Val Phe Xaa Pro
          20             25             30

Xaa Leu Cys Xaa Lys Met Gly Xaa Pro Tyr Cys Ile Ile Lys Gly Lys
          35             40             45

Xaa Xaa Leu Ala Thr Tyr Xaa Ser Thr Gly Ser Xaa Cys Thr Ile Val
          50             55             60

Arg Leu Xaa Thr Gly Val Leu Gly Thr Xaa Lys Gly Xaa Phe
 65             70             75

```

&lt;210&gt; 6565

&lt;211&gt; 58

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6565

```

Arg Thr Ala Val Met Pro Arg Glu Asp Arg Ala Thr Trp Lys Ser Asn
 1             5             10             15

Tyr Phe Leu Lys Ile Ile Gln Leu Leu Asp Asp Tyr Pro Lys Cys Phe
          20             25             30

Ile Val Gly Ala Asp Asn Val Gly Ser Lys Gln Met Gln Gln Ile Pro
          35             40             45

His Val Pro Ser Arg Glu Gly Leu Trp Cys
          50             55

```

&lt;210&gt; 6566

&lt;211&gt; 104

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (39)

## 5815

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

5816

&lt;400&gt; 6566

Asn Thr Val Leu Ser Gly Gly Thr Thr Met Tyr Pro Gly Ile Ala Asp  
 1 5 10 15

Arg Met Gln Xaa Glu Ile Thr Ala Leu Ala Pro Ser Thr Met Lys Ile  
 20 25 30

Lys Ile Ile Ala Pro Pro Xaa Arg Lys Phe Ser Val Trp Asp Arg Xaa  
 35 40 45

Xaa Pro Ser Trp Xaa Arg Cys Pro Pro Ser Asn Arg Phe Xaa Ser Ala  
 50 55 60

Ser Xaa Asn Xaa Glu Xaa Ile Pro Gly Pro Ser His Pro Ser Thr Arg  
 65 70 75 80

Lys Leu Leu Pro Xaa Gly Gly Xaa Asn Xaa Leu Ile Leu Arg Leu Gln  
 85 90 95

Pro Phe Ser Phe Glu Lys Lys Pro  
 100

&lt;210&gt; 6567

&lt;211&gt; 67

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (51)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (58)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (59)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (64)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6567

## 5817

Cys Asp Pro Pro Ala Lys Gly Cys Gln Gly Leu Phe His Tyr Gly Leu  
 1 5 10 15  
 Cys Val Leu Pro Phe Arg His Leu Arg Asn Ser Ser His Ala Gly Ala  
 20 25 30  
 Phe Val Ile Val Thr Glu Glu Ala Ile Ala Lys Gly Ile Arg Arg Asn  
 35 40 45  
 Cys Gly Xaa Ser Gln Val Pro Arg Pro Xaa Xaa Gly Glu Pro Gly Xaa  
 50 55 60  
 Ser Leu Gly  
 65

<210> 6568  
 <211> 111  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (86)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (106)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (107)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (110)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6568  
 Pro Xaa Gln Lys Gly Asp Thr Gly Glu Pro Gly Leu Pro Gly Thr Lys  
 1 5 10 15

## 5818

Gly Thr Arg Gly Pro Pro Gly Ala Ser Gly Tyr Pro Gly Asn Pro Gly  
                   20                  25                  30  
 Leu Pro Gly Ile Pro Gly Gln Asp Gly Pro Pro Gly Pro Pro Gly Ile  
                   35                  40                  45  
 Pro Gly Cys Asn Gly Thr Lys Gly Glu Arg Gly Pro Leu Gly Pro Pro  
                   50                  55                  60  
 Gly Leu Pro Gly Phe Ala Gly Asn Pro Gly Pro Pro Gly Leu Pro Gly  
                   65                  70                  75                  80  
 Met Lys Gly Asp Pro Xaa Glu Ile Leu Gly His Val Pro Gly Met Leu  
                                   85                  90                  95  
 Leu Lys Gly Glu Arg Arg Phe Pro Glu Xaa Xaa Gly Leu Xaa Ala  
                   100                  105                  110

&lt;210&gt; 6569

&lt;211&gt; 90

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (80)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (86)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (89)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (90)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6569

Ala Ser Gly Asn Val Lys Lys Ala Leu Lys Leu Met Gly Ser Asn Glu  
           1                  5                  10                  15

Gly Glu Phe Lys Ala Glu Gly Asn Ser Lys Phe Thr Tyr Thr Val Leu  
                   20                  25                  30

## 5819

```

Glu Asp Gly Cys Thr Lys His Thr Gly Glu Trp Ser Lys Thr Val Phe
      35              40              45

Glu Tyr Arg Thr Arg Lys Ala Val Arg Leu Pro Ile Val Asp Ile Ala
      50              55              60

Pro Tyr Asp Ile Gly Gly Pro Asp Gln Glu Phe Gly Val Asp Val Xaa
      65              70              75              80

Pro Asp Ser Leu Tyr Xaa Pro Asn Xaa Xaa
      85              90

```

<210> 6570

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

## 5820

&lt;221&gt; SITE

&lt;222&gt; (72)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6570

Trp	Ala	Tyr	Leu	Phe	Gln	Ala	Ala	Gly	Ala	Xaa	Tyr	Val	Val	Leu	Thr
1				5				10						15	

Thr	Lys	His	His	Glu	Gly	Phe	Thr	Asn	Trp	Xaa	Ser	Pro	Val	Ser	Trp
			20					25					30		

Asn	Trp	Asn	Ser	Lys	Asp	Val	Gly	Pro	His	Xaa	Asp	Leu	Val	Gly	Glu
			35				40					45			

Leu	Gly	Thr	Ala	Leu	Arg	Lys	Arg	Asn	Xaa	Arg	Tyr	Gly	Leu	Tyr	His
	50					55					60				

Xaa	Leu	Leu	Glu	Trp	Xaa	His	Xaa	Leu	Tyr	Leu	Leu	Asp	Lys
65					70				75				

&lt;210&gt; 6571

&lt;211&gt; 153

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (102)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (104)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (112)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (129)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (139)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids



5821

&lt;400&gt; 6571

```

Asp Met Arg Pro Leu Ser Asn Lys Ala Ser Ala Leu Val Phe Phe Ser
 1           5           10           15

Cys Arg Thr Asp Met Pro Tyr Arg Tyr His Ser Ser Leu Gly Gln Leu
          20           25           30

Asn Phe Thr Gly Ser Val Ile Tyr Glu Ala Gln Asp Val Tyr Ser Gly
          35           40           45

Asp Ile Ile Ser Gly Leu Arg Asp Glu Thr Asn Phe Thr Val Ile Ile
          50           55           60

Asn Pro Ser Gly Val Val Met Trp Tyr Leu Tyr Pro Ile Lys Asn Trp
          65           70           75           80

Arg Cys Pro Ser Ser Glu Glu Leu Gly His Val Thr Gly Cys Gly Gly
          85           90           95

Thr Thr Glu Pro Arg Xaa Trp Xaa Leu Gly Met Pro Arg Ala Ser Xaa
          100          105          110

Glu Val Leu Cys Ser Pro Gly Cys Ser Val Thr Asp Pro Ser Ser Gln
          115          120          125

Xaa His Leu Thr Ala Ser Leu Ser Phe Gln Xaa Lys Pro Leu Glu Ile
          130          135          140

Phe Gly His Phe Leu Trp Leu Leu Ala
          145          150

```

&lt;210&gt; 6572

&lt;211&gt; 86

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 5822

&lt;222&gt; (41)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (73)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6572

Pro	Asn	His	Ser	Xaa	Tyr	Arg	Ala	Ile	Gly	Val	Ser	Lys	Xaa	Cys	Leu
1				5					10					15	

Ser	Gly	Ile	Asp	Val	Arg	Tyr	Leu	His	Phe	Leu	Glu	Gly	Thr	Arg	Asp
			20					25					30		

Tyr	Asp	Trp	Leu	Glu	Pro	Leu	Leu	Xaa	Asn	Gln	Thr	Val	Met	Ser	Ile
			35				40					45			

Xaa	Leu	Phe	Trp	Phe	Arg	His	Arg	Pro	Gln	Glu	Ser	Phe	Ser	Gly	Ser
	50					55					60				

Pro	Ala	His	Arg	Gln	Val	Pro	Val	Xaa	Ala	Pro	Arg	Leu	Ser	Pro	Ile
	65				70					75					80

His	Glu	Gln	Gln	Val	Thr
				85	

&lt;210&gt; 6573

&lt;211&gt; 80

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6573

Tyr	Ile	Gln	Ser	His	Tyr	Gln	Leu	Glu	Leu	Gln	Cys	Cys	Ile	Asp	Trp
1				5					10					15	

Thr	His	Val	Thr	Asp	Pro	Leu	His	Arg	Xaa	Gln	Lys	Leu	Gln	Glu	Glu
			20					25					30		

## 5823

Lys His Lys Ser Ile Thr Glu Ala Leu Arg Arg Gln Glu Gln Asn Ile  
35 40 45

Lys Ser Phe Glu Glu Thr Tyr Asp Arg Lys Leu Lys Asn Glu Leu Leu  
50 55 60

Asn Phe His Arg Leu His Gly Val Cys Leu Ala Leu Gly Ile Leu Ile  
65 70 75 80

<210> 6574

<211> 126

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

&lt;221&gt; SITE

$\langle 222 \rangle$  (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6574

Tyr Ala Leu Arg Arg His Lys Leu Met Ser Leu Ile Gln Lys Glu Ala  
1 5 10 15

Gln Gly Gln Ser Gly Thr Asp Gln Thr Val Gly Val Leu Ser Asn Pro  
20 25 30

Thr Tyr Tyr Met Ser Asn Asp Ile Pro Tyr Thr Phe His Gln Asp Asn  
35 40 45

Asn Phe Leu Tyr Leu Cys Gly Phe Gln Glu Pro Asp Ser Ile Leu Val  
50 55 60

## 5824

Leu Xaa Ser Leu Pro Gly Lys Gln Leu Pro Xaa His Lys Ala Ile Leu  
 65 70 75 80

Phe Val Pro Arg Arg Asp Pro Ser Arg Glu Leu Trp Asp Gly Pro Xaa  
 85 90 95

Ser Gly Thr Asp Gly Ala Ile Ser Ser Asn Trp Ser Arg Arg Ser Leu  
 100 105 110

Tyr Ala Arg Arg Ile Ser Thr Xaa Cys Thr Lys Asn Glu Ser  
 115 120 125

<210> 6575

<211> 145

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (136)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6575

Gly Lys Phe Cys Val Gln Ser Glu Arg Gln Asp Ser Ala Ala Val Gly  
 1 5 10 15

Phe Asp Tyr Lys Glu Lys Leu Ala Lys His Glu Ser Gln Gln Asp Tyr  
 20 25 30

Ser Lys Gly Phe Gly Gly Lys Tyr Gly Val Gln Lys Asp Arg Met Asp  
 35 40 45

Lys Asn Ala Ser Thr Phe Glu Asp Val Thr Gln Val Ser Ser Ala Tyr

## 5825

50                                      55                                      60  
 Gln Lys Thr Val Pro Val Glu Ala Val Thr Ser Lys Thr Ser Asn Ile  
 65                                      70                                      75                                      80  
 Arg Ala Asn Phe Glu Asn Leu Ala Lys Glu Lys Glu Gln Glu Asp Arg  
                                     85                                      90                                      95  
 Arg Lys Ala Xaa Ala Glu Arg Ala Gln Arg Met Ala Lys Glu Arg Gln  
                                     100                                      105                                      110  
 Glu Gln Glu Glu Ala Arg Lys Lys Leu Gly Xaa Thr Ser Gln Ser Gln  
                                     115                                      120                                      125  
 Asn Ala Asn Ala Pro Cys Val Xaa Arg Thr Leu Ser Gln Pro Xaa Glu  
                                     130                                      135                                      140  
 Lys  
 145

&lt;210&gt; 6576

&lt;211&gt; 76

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6576

Gly Gln Cys Cys Gln Glu Leu Arg Thr Ser Leu Arg Asn Val Thr Leu  
 1                                      5                                      10                                      15  
 His Cys Thr Asp Gly Ser Ser Arg Ala Phe Ser Tyr Thr Glu Val Glu  
                                     20                                      25                                      30  
 Glu Cys Gly Cys Met Gly Arg Arg Cys Pro Ala Pro Gly Asp Thr Gln  
                                     35                                      40                                      45  
 His Ser Glu Glu Ala Glu Pro Glu Pro Ser Gln Glu Ala Glu Ser Gly  
                                     50                                      55                                      60  
 Ser Trp Glu Arg Gly Val Pro Val Ser Pro Met His  
 65                                      70                                      75

&lt;210&gt; 6577

&lt;211&gt; 39

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6577

## 5827

<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (13)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (25)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (26)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (30)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (54)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (60)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (88)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6579  
Lys Met Pro Lys Ser Leu Lys Xaa Xaa Gln Thr Glu Xaa Leu Xaa Asn  
1 5 10 15

5828

Ala	Leu	Leu	Gln	Gly	Xaa	Pro	Val	Xaa	Xaa	Gly	Arg	Cys	Xaa	Arg	Gln
			20					25					30		
Pro	Leu	Thr	Arg	Cys	Ile	Ala	Thr	Ala	Ser	Gly	Ser	Lys	Leu	Lys	Gly
		35					40					45			
Gln	Pro	Val	Arg	Ile	Xaa	Pro	Gly	Lys	Ser	Asp	Xaa	Arg	His	Gln	Pro
	50					55					60				
Gly	Gly	Ser	Met	Arg	Thr	Gly	Pro	Thr	Glu	Ser	Leu	Ile	Gln	Gly	Leu
65					70				75						80
His	Gln	Ser	Val	Phe	Arg	Ala	Xaa	Lys	Arg	Ile	Gly	Leu	Val	Leu	Phe
				85					90					95	
Gly	Lys	Gly	Asn	Thr	Gly	Phe	Pro	Leu	Ala	Gly	Thr	Val	Arg	Pro	
			100					105					110		

&lt;210&gt; 6580

&lt;211&gt; 131

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (40)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (47)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (55)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (67)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

5829

<220>  
<221> SITE  
<222> (72)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (73)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (83)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (84)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (89)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (113)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (114)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (119)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (121)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6580  
Leu Thr Tyr Val Arg Pro Lys Gly Leu Ile Ser Met Xaa Glu Ser Arg  
1 5 10 15  
Ser Cys Asp Gly His Leu Gly Asn Phe Leu Gly Ala Arg Ser Pro Asp  
20 25 30



## 5830

Glu Thr Ile Phe Cys Asn Asp Xaa Pro Leu His Leu Leu His Xaa Trp  
           35                          40                          45  
 Ser Pro Asp Ile Ile Pro Xaa Leu Val Ser Cys Arg Phe Thr Lys Glu  
           50                          55                          60  
 Thr Thr Xaa Lys Asn Phe Asn Xaa Xaa Tyr Gly Thr Lys Gly Asn Tyr  
           65                          70                          75                          80  
 Thr Ser Xaa Xaa Trp Glu Tyr Ser Xaa Ser Ile Gln Asn Ser Asp Asn  
                           85                          90                          95  
 Asp Leu Pro Val Phe Gln Gly Ile Ser Ser Phe Ser Leu Lys Gly Tyr  
                           100                          105                          110  
 Xaa Xaa Leu Met Arg Ser Xaa Ser Xaa Lys Ala Gln Pro Gln Thr Trp  
           115                          120                          125  
 Lys Ser Gly  
           130

&lt;210&gt; 6581

&lt;211&gt; 77

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (65)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6581

Leu Ala Phe Xaa Xaa Ile Lys Leu Gly Arg Tyr Ser Gly Leu Xaa His

## 5831

1                    5                    10                    15  
 Gly Val Ala Tyr Gly Ala Thr Arg Tyr Asn Tyr Leu Lys Pro Arg Ala  
                   20                    25                    30  
 Glu Glu Glu Arg Arg Ile Ala Ala Glu Glu Lys Lys Lys Gln Asp Glu  
                   35                    40                    45  
 Leu Lys Arg Ile Ala Arg Glu Leu Ala Glu Asp Asp Ser Ile Leu Lys  
                   50                    55                    60  
 Xaa Val Thr Leu Arg Pro Thr Pro Trp Thr Ser Ser Gly  
                   65                    70                    75

&lt;210&gt; 6582

&lt;211&gt; 58

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6582

Pro Arg Lys Leu Lys Gln Thr Leu Arg Thr Lys Met Asn Glu Asn Leu  
   1                    5                    10                    15  
 Phe Ala Ser Phe Ile Ala Pro Thr Ile Leu Gly Leu Pro Ala Ala Val  
                   20                    25                    30  
 Leu Ile Ile Leu Phe Pro Pro Leu Leu Ile Pro Thr Ser Lys Tyr Leu  
                   35                    40                    45  
 Ile Asn Asn Arg Leu Ile Thr Thr Gln Gln  
                   50                    55

&lt;210&gt; 6583

&lt;211&gt; 118

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (58)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (67)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5832

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (71)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (109)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (118)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6583

Ala	Gly	Ala	Val	Ile	Ile	Gly	Phe	Arg	Ser	Lys	Ile	Lys	Asn	Ala	Leu
1				5					10					15	

Ala	His	Phe	Leu	Pro	Gln	Gly	Thr	Pro	Thr	Pro	Leu	Ile	Pro	Ile	Leu
			20					25					30		

Val	Ile	Ile	Glu	Thr	Ile	Ser	Leu	Leu	Ile	Gln	Pro	Ile	Ala	Leu	Ala
		35					40					45			

Val	Arg	Leu	Thr	Ala	Tyr	Ile	Thr	Ala	Xaa	His	Leu	Leu	Met	His	Leu
	50					55					60				

Ile	Gly	Xaa	Ala	Thr	Leu	Xaa	Ile	Ser	Thr	Ile	Asn	Leu	Pro	Ser	Thr
65					70					75				80	

Leu	Ile	Ile	Phe	Thr	Ile	Leu	Ile	Leu	Leu	Thr	Ile	Leu	Glu	Ile	Ala
			85					90					95		

Val	Ala	Leu	Ile	Gln	Ser	Leu	Arg	Phe	Pro	His	Phe	Xaa	Leu	Ser	Leu
		100						105					110		

Leu	Pro	Ala	Gln	Gln	Xaa
					115

&lt;210&gt; 6584

&lt;211&gt; 84

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6584

Ile	Gly	Val	Thr	Ala	Val	Ala	Phe	Asn	Lys	Glu	Leu	Asp	Pro	Ile	Gln
1					5				10					15	

## 5833

Lys Leu Phe Val Asp Lys Ile Arg Glu Tyr Lys Ser Lys Arg Gln Thr  
20 25 30  
Ser Gly Gly Pro Val Asp Ala Ser Ser Glu Tyr Gln Gln Glu Leu Glu  
35 40 45  
Arg Glu Leu Phe Lys Leu Lys Gln Met Phe Gly Asn Ala Asp Met Asn  
50 55 60  
Thr Phe Pro Thr Phe Lys Phe Glu Asp Pro Lys Phe Glu Val Ile Glu  
65 70 75 80  
Lys Pro Gln Ala

&lt;210&gt; 6585

&lt;211&gt; 74

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (23)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

5834

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (42)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (57)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (60)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (67)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6585

Xaa	Gly	Ala	Val	Ile	Ile	Xaa	Phe	Arg	Ser	Lys	Ile	Lys	Xaa	Ala	Leu
1				5				10					15		

Ala	His	Phe	Leu	Ser	Lys	Xaa	Thr	Pro	Thr	Pro	Leu	Ile	Pro	Ile	Leu
			20				25					30			

Val	Ile	Met	Xaa	Asn	Xaa	Ile	Leu	Leu	Xaa	Xaa	Pro	Ile	Ala	Leu	Gly
		35				40					45				

Val	Ser	Leu	Ile	Ala	Tyr	Ile	Thr	Xaa	Gly	His	Xaa	Leu	Met	His	Leu
	50					55				60					

Ile	Gly	Xaa	Val	Pro	Tyr	Asn	Ile	Asn	His
65						70			

&lt;210&gt; 6586

&lt;211&gt; 92

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

## 5835

&lt;222&gt; (76)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6586

Arg Glu Ala Phe Gln Ser Val Val Leu Pro Ala Phe Glu Lys Ser Cys

1 5 10 15

Gln Ala Met Phe Gln Gln Ile Asn Asp Ser Phe Arg Leu Gly Thr Gln

20 25 30

Glu Tyr Leu Gln Gln Leu Glu Ser His Met Lys Ser Arg Lys Ala Arg

35 40 45

Glu Gln Glu Ala Arg Glu Pro Val Leu Ala Gln Gln Ala His Ile Leu

50 55 60

Gln Leu Leu Gln Gln Gly His Leu Asn Gln Ala Xaa Gln Gln Ala Leu

65 70 75 80

Thr Ala Ala Asp Leu Asn Leu Val Leu Val Cys Val

85 90

&lt;210&gt; 6587

&lt;211&gt; 81

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (68)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (78)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (79)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6587

Ala Val Leu Ala Leu Leu Ser Leu Ser Gly Leu Glu Ala Ile Gln Arg

1 5 10 15

Thr Pro Lys Ile Gln Val Tyr Ser Arg His Pro Ala Glu Asn Gly Lys

20 25 30

5836

Ser	Asn	Phe	Leu	Asn	Cys	Tyr	Val	Ser	Gly	Phe	His	Pro	Ser	Asp	Ile
		35					40					45			
Glu	Val	Asp	Leu	Leu	Lys	Asn	Gly	Glu	Arg	Ile	Glu	Lys	Ser	Gly	Ala
	50					55					60				
Phe	Arg	Leu	Xaa	Phe	Gln	Gln	Gly	Leu	Val	Phe	Leu	Ser	Xaa	Xaa	Leu
65					70					75					80

His

<210> 6588

<211> 154

<212> PRT

<213> Homo sapiens

<220>

&lt;221&gt; SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

&lt;221&gt; SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

**<220>**

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

**<220>**

<221> SITE

$\langle 222 \rangle$  (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

$\langle 222 \rangle$  (150)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6588

Pro Gln Lys Pro Leu Ser Ser Thr Pro Thr Gly Cys Xaa Trp Gly Lys  
1 5 10 15

Thr Gln Gly Leu Gln Cys Leu Gly Pro Gly Trp Arg His Leu His Ala  
20 25 30

## 5837

Val Pro Thr Ala Pro Pro Ala Leu Arg His Gly Leu Leu Arg Xaa Met  
                   35                                  40                                  45  
 Cys Leu Pro Trp Thr Arg Arg Leu Gly Tyr Ser Ala Met Pro Gln Ala  
           50                                  55                                  60  
 Leu Thr Leu Val Pro Ser Trp Leu Pro Gly Pro Pro Gly Arg Thr Ser  
   65                                  70                                  75                                  80  
 Ala Ala Arg Gly Cys Gly Arg Pro Ser Arg Ser Trp Arg Ala Ala Ala  
                                   85                                  90                                  95  
 Glu Ala Gly Gly Pro Gly Gly Xaa Gly Pro Ala Xaa Val Gly Ser Gly  
                                   100                                  105                                  110  
 Ala Gly Gly Arg Arg Pro Ala Val Thr Gly Ala Ala Pro Ala Ser Leu  
                   115                                  120                                  125  
 Val Pro Asn Ser Cys Ser Pro Gly Asp Pro Leu Val Leu Glu Arg Pro  
           130                                  135                                  140  
 Pro Pro Arg Trp Ser Xaa Ser Phe Val Pro  
 145                                  150

&lt;210&gt; 6589

&lt;211&gt; 128

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6589

Val Cys Met Ser Tyr Ala Phe His Thr Pro Asp Lys Leu Ser Phe Ile  
   1                                  5                                  10                                  15  
 Leu Asp Leu Met Asn Gly Gly Asp Leu His Tyr His Leu Ser Gln His  
           20                                  25                                  30  
 Gly Val Phe Ser Glu Ala Asp Met Arg Phe Tyr Ala Ala Glu Ile Ile  
           35                                  40                                  45  
 Leu Gly Leu Glu His Met His Asn Arg Phe Val Val Tyr Arg Asp Leu  
   50                                  55                                  60  
 Lys Pro Ala Asn Ile Leu Leu Asp Glu His Gly His Val Arg Ile Ser  
   65                                  70                                  75                                  80  
 Asp Leu Gly Leu Ala Cys Asp Phe Ser Arg Arg Ser Pro Met Pro Ala  
                                   85                                  90                                  95  
 Trp Ala Pro Thr Gly Thr Trp Leu Arg Arg Ser Cys Arg Arg Ala Trp



## 5838

100	105	110
Pro Thr Thr Ala Val Pro Thr Gly Ser Leu Trp Gly Ala Cys Ser Ser		
115	120	125

&lt;210&gt; 6590

&lt;211&gt; 39

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (27)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (37)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6590

Xaa Pro Thr Pro Val Thr Phe Gly Phe Xaa Pro Ser Phe Phe Ala Thr
1 5 10 15

Phe Ala Gly Phe Pro Arg Gln Ala Xaa Asn Xaa Gly Leu Pro Leu Gly
20 25 30

5839

Phe Pro Ile Xaa Xaa Phe Thr  
35

<210> 6591

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6591

Xaa Thr Ile Gly Lys Ala Gly Thr Pro Ala Gly Thr Gly Pro Glu Phe  
1 5 10 15

Pro Gly Val Val Thr Arg Xaa Val Thr Ala Thr Leu Ala Ser Ala Leu  
20 25 30

Xaa Pro Ala Pro Phe Ala Phe Phe Pro Ser Phe Leu Ala Thr Phe Ala  
35 40 45

Gly Phe Pro Arg Gln Ala Leu Asn Arg Gly Leu Pro Leu Gly Phe Arg  
50 55 60

Phe Ser Ala Leu Arg His Leu Asp Pro Lys Lys Leu Asp  
65 70 75

<210> 6592

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

## 5840

&lt;222&gt; (42)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (48)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6592

Ile	Ala	Ser	Gly	Arg	Ser	Arg	Gly	Ser	Lys	Leu	Thr	Tyr	Ala	Cys	Met
1				5					10					15	

Arg	Arg	His	Ser	Ser	Ser	Ile	Val	Ser	Pro	Lys	Phe	Asn	Ser	Leu	Ala
			20					25					30		

Val	Val	Leu	Gln	Arg	Arg	Asp	Trp	Glu	Xaa	Pro	Lys	Xaa	Ala	Gln	Xaa
		35					40					45			

Asp

&lt;210&gt; 6593

&lt;211&gt; 77

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (59)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (64)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (77)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6593

Ile	Ala	Ser	Gly	Arg	Ser	Arg	Gly	Ser	Lys	Leu	Thr	Tyr	Ala	Cys	Met
1				5					10					15	

## 5841

Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala  
                   20                  25                  30

Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu  
                   35                  40                  45

Asn Arg Leu Ala Ala His Pro Pro Phe Ala Xaa Trp Arg Asn Ser Xaa  
           50                  55                  60

Glu Ala Arg Thr Asp Arg Leu Pro Asn Ser Cys Ala Xaa  
   65                  70                  75

&lt;210&gt; 6594

&lt;211&gt; 30

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6594

Xaa Thr His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly  
   1                  5                  10                  15

Ile Pro Gly Ser Thr His Ala Ser Ala His Ala Ser Gly Gly  
                   20                  25                  30

&lt;210&gt; 6595

&lt;211&gt; 87

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (63)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (65)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 5842

&lt;222&gt; (69)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (70)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (72)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6595

Ile	Ala	Ser	Gly	Arg	Ser	Arg	Gly	Ser	Lys	Leu	Thr	Tyr	Ala	Cys	Met
1				5					10					15	

Arg	Arg	His	Ser	Ser	Ser	Ile	Val	Ser	Pro	Lys	Phe	Asn	Ser	Leu	Ala
			20					25					30		

Val	Val	Leu	Gln	Arg	Arg	Asp	Trp	Glu	Asn	Pro	Gly	Val	Thr	Gln	Leu
		35					40					45			

Asn	Arg	Leu	Ala	Ala	His	Pro	Pro	Phe	Ala	Ser	Trp	Arg	Asn	Xaa	Glu
		50					55				60				

Xaa	Ala	Arg	Asn	Xaa	Xaa	Pro	Xaa	Pro	Asn	Arg	Leu	Arg	Ser	Leu	Glu
65					70					75					80

Trp	Arg	Met	Gly	Arg	Ala	Leu
						85

&lt;210&gt; 6596

&lt;211&gt; 71

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (23)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 5843

&lt;222&gt; (63)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (64)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (71)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6596

Lys	Lys	Lys	Lys	Arg	Ala	Ala	Ala	Leu	Glu	Asp	Pro	Ser	Leu	Arg	Thr
1				5				10					15		

Arg	Ala	Cys	Arg	Arg	His	Xaa	Ser	Ser	Ile	Val	Ser	Pro	Lys	Phe	Asn
			20				25						30		

Ser	Leu	Gly	Arg	Arg	Leu	His	Val	Val	Thr	Gly	Xaa	Asn	Pro	Ala	Val
		35					40					45			

Pro	Gln	Leu	Asn	Pro	Pro	Cys	Arg	Thr	Ser	Pro	Phe	Arg	Lys	Xaa	Xaa
	50					55					60				

Ile	Pro	Lys	Gly	Pro	Thr	Xaa
65					70	

&lt;210&gt; 6597

&lt;211&gt; 32

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6597

Ser	Gly	Thr	Thr	Xaa	Tyr	Arg	Glu	Ser	Trp	Tyr	Ala	Cys	Arg	Tyr	Arg
1				5				10				15			

Ser	Gly	Ile	Pro	Gly	Ser	Thr	His	Ala	Ser	Gly	Leu	Trp	Ser	Gln	Cys
			20					25					30		

5844

&lt;210&gt; 6598

&lt;211&gt; 65

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (42)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (62)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (64)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (65)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6598

Ala Ser Ser Arg Ser Arg Ala Xaa Xaa Leu Glu Asp Pro Ser Leu Arg

1

5

10

15

## 5845

Thr Arg Ala Cys Arg Arg His Ser Xaa Ser Ile Val Ser Pro Lys Phe  
20 25 30

Asn Ser Leu Ala Val Val Leu Gln Arg Xaa Asp Trp Glu Asn Pro Gly  
35 40 45

Xaa Thr Gln Leu Lys Arg Leu Ala Val His Ser Leu Phe Xaa Gln Xaa  
50 55 60

Xaa  
65

<210> 6599

<211> 106

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE



## 5846

&lt;222&gt; (101)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6599

Thr	Ser	Asp	Xaa	Thr	Lys	Lys	Lys	Lys	Lys	Gly	Gly	Arg	Ser	Xaa	Gly
1				5					10					15	

Ser	Lys	Leu	Thr	Tyr	Ala	Cys	Met	Arg	Arg	His	Ser	Ser	Xaa	Ile	Val
			20					25					30		

Ser	Pro	Lys	Phe	Asn	Ser	Leu	Ala	Val	Val	Leu	Gln	Arg	Arg	Asp	Trp
		35					40					45			

Glu	Asn	Pro	Gly	Val	Thr	Gln	Leu	Asn	Arg	Leu	Ala	Ala	His	Thr	Pro
	50					55					60				

Phe	Ala	Ser	Trp	Arg	Asn	Ser	Glu	Glu	Ala	Arg	Thr	Asp	Arg	Pro	Xaa
65					70					75					80

Gln	Gln	Leu	Xaa	Ser	Leu	Asn	Gly	Glu	Trp	Asp	Ala	Pro	Cys	Ser	Gly
				85					90					95	

Xaa	Leu	Ser	Ala	Xaa	Gly	Val	Val	Val	Thr
			100					105	

&lt;210&gt; 6600

&lt;211&gt; 70

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

5847

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (48)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (66)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (69)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (70)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6600

Xaa	Xaa	Pro	Phe	Gly	Asn	Pro	Xaa	Gly	Thr	Thr	Xaa	Tyr	Arg	Glu	Ser
1				5					10					15	

Trp	Tyr	Ala	Cys	Arg	Tyr	Arg	Ser	Gly	Ile	Pro	Gly	Ser	Thr	His	Ala
			20					25					30		

Ser	Ala	Asp	Ala	Trp	Ala	Asp	Ala	Trp	Ala	Asp	Ala	Trp	Val	Lys	Xaa
		35				40						45			

Gly	Tyr	Lys	Lys	Leu	Phe	Val	Leu	Asp	Asp	Arg	Glu	Ala	His	Asn	Glu
	50						55				60				

Val	Xaa	Pro	Leu	Xaa	Xaa
65				70	

&lt;210&gt; 6601

&lt;211&gt; 69

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 5848

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (56)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (64)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (67)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (69)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6601

Ile	Asn	Leu	Cys	Asn	Leu	Lys	Asn	Xaa	Xaa	Glu	Gly	Gly	Arg	Ser	Arg
1				5					10					15	

Gly	Ser	Lys	Leu	Thr	Tyr	Ala	Cys	Met	Arg	Arg	His	Ser	Ser	Ser	Ile
			20					25					30		

Val	Ser	Pro	Lys	Phe	Asn	Ser	Leu	Ala	Val	Val	Leu	Gln	Arg	Arg	Asp
		35					40					45			

Trp	Glu	Asn	Pro	Gly	Val	Thr	Xaa	Leu	Asn	Arg	Leu	Ala	Ala	His	Xaa
	50					55					60				

Pro	Phe	Xaa	Gln	Xaa
65				

&lt;210&gt; 6602

&lt;211&gt; 32

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5849

<220>  
<221> SITE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (30)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (31)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6602  
Leu Xaa Xaa Leu Trp Lys Thr Pro His Tyr Arg Leu Ser Trp Tyr Ala  
1 5 10 15  
Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Xaa Xaa Ser  
20 25 30

<210> 6603  
<211> 38  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (25)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (28)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (30)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

5850

&lt;400&gt; 6603

Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His  
 1 5 10 15

Ala Ser Gly Glu Ser Ser His Tyr Xaa Phe Ser Xaa Gly Xaa Gly Ala  
 20 25 30

Gly Xaa Phe Lys Ser Phe  
 35

&lt;210&gt; 6604

&lt;211&gt; 44

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (39)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6604

Asn Ser Ser Gly Asn Pro His Tyr Arg Xaa Ser Trp Tyr Ala Cys Arg  
 1 5 10 15

Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Ala His Ala Ser  
 20 25 30

Ala His Ala Xaa Glu Lys Xaa Arg Xaa Lys Lys Xaa

5851

35

40

&lt;210&gt; 6605

&lt;211&gt; 43

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (40)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (42)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6605

Xaa Ser Pro Ala Ser Tyr Pro Xaa His Tyr Arg Glu Ser Trp Tyr Ala  
1 5 10 15

Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Ala Asp  
20 25 30

## 5852

Ala Trp Val Asp Pro Xaa Ile Xaa Xaa Xaa Xaa  
           35                          40

<210> 6606

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6606

Tyr Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro  
       1                          5                          10                          15

Gly Ser Thr His Ala Ser Gly Gln Xaa Xaa Xaa Phe Leu Trp Pro Thr  
                           20                          25                          30

Ser Glu Pro Val Thr Arg Lys Gly Lys Xaa Gly Arg Xaa Glu Asp Pro  
           35                          40                          45

Thr Tyr Glu Xaa Asn Val Tyr Gly Leu

5853

50

55

&lt;210&gt; 6607

&lt;211&gt; 51

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6607

Tyr Pro His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly  
1 5 10 15

Ile Pro Gly Ser Thr His Ala Xaa Ala Glu Arg Glu Thr Ile Ser Ser  
20 25 30

Leu Gln Gly Thr Ile Pro Gly Asn Val Leu Ile His Tyr Gly Ile Lys  
35 40 45

Ala Val Val  
50

&lt;210&gt; 6608

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6608

Pro Xaa Lys Leu Leu Xaa Asn Thr Pro His Tyr Arg Glu Ser Trp Tyr  
1 5 10 15

Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Gly  
20 25 30



5854

His Phe

&lt;210&gt; 6609

&lt;211&gt; 48

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6609

Ile	Ala	Ser	Gly	Arg	Ser	Arg	Arg	Ser	Lys	Leu	Thr	Tyr	Ala	Cys	Met
1				5					10					15	

Arg	Arg	His	Ser	Ser	Ser	Ile	Leu	Ser	Pro	Lys	Phe	Asn	Ser	Leu	Ala
			20					25					30		

Val	Xaa	Leu	Gln	Arg	Arg	Asp	Trp	Glu	Asn	Xaa	Thr	Xaa	Xaa	Pro	Ser
		35					40					45			

&lt;210&gt; 6610

&lt;211&gt; 41

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6610

## 5855

Ile Ala Ser Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met  
1 5 10 15  
Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala  
20 25 30  
Val Val Leu Gln Arg Arg Asp Trp Glu  
35 40

&lt;210&gt; 6611

&lt;211&gt; 45

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6611

Ile Ala Ser Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met  
1 5 10 15  
Arg Arg His Xaa Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala  
20 25 30  
Val Val Leu Gln Arg Arg Asp Trp Glu Thr Lys Xaa Xaa  
35 40 45

&lt;210&gt; 6612

&lt;211&gt; 47

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

5856

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6612

Ile	Ala	Ser	Gly	Arg	Ser	Arg	Gly	Ser	Lys	Leu	Thr	Tyr	Ala	Cys	Met
1					5				10					15	

Arg	Arg	His	Ser	Ser	Ser	Ile	Val	Ser	Pro	Lys	Phe	Asn	Ser	Leu	Ala
			20					25					30		

Val	Val	Leu	Gln	Arg	Arg	Asp	Trp	Glu	Asn	Pro	Xaa	Arg	Xaa	Xaa	
		35					40						45		

<210> 6613

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

5857

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6613

Phe	Xaa	Ile	Xaa	Ser	Gly	Arg	Xaa	Arg	Gly	Ser	Xaa	Leu	Xaa	Tyr	Ala
1				5					10					15	

Cys	Met	Arg	Xaa	His	Ser	Ser	Xaa	Ile	Met	Ser	Pro	Lys	Phe	Asn	Ser
				20				25						30	

Leu	Ala	Xaa	Xaa	Leu	Gln	Arg	Arg	Asp	Trp	Glu	Asn	Glu	Cys
				35				40					45

&lt;210&gt; 6614

&lt;211&gt; 45

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6614

## 5858

Ile Ala Ser Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met  
 1 5 10 15  
 Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala  
 20 25 30  
 Val Val Leu Gln Arg Arg Asp Trp Thr Pro Lys Xaa Xaa  
 35 40 45

&lt;210&gt; 6615

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6615

Asp Tyr Xaa Xaa Ser Asn Thr Ser His Tyr Xaa Glu Ser Trp Tyr Ala  
 1 5 10 15

Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Ala  
 20 25 30

&lt;210&gt; 6616

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6616

5859

Gly Gly Gly Val Gly Asn Asp Tyr Ala Leu Ser Asn Thr Xaa His Tyr  
 1 5 10 15  
 Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser  
 20 25 30  
 Thr His Ala Ser  
 35

&lt;210&gt; 6617

&lt;211&gt; 46

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (40)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6617

Leu Arg Xaa Ser Gln Ile Arg Xaa Xaa Ile Gly Xaa Ser Trp Tyr Ala  
 1 5 10 15

Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Gly Val

## 5860

	20		25		30
Leu	Val	Val	Ile	Phe	Phe
			Phe	Xaa	Pro
				Gly	Cys
				Xaa	Leu
					Phe
	35		40		45

&lt;210&gt; 6618

&lt;211&gt; 45

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6618

Ile	Ala	Ser	Gly	Arg	Ser	Arg	Gly	Ser	Lys	Leu	Thr	Tyr	Ala	Cys	Met
1				5				10						15	

Arg	Arg	His	Ser	Ser	Ser	Ile	Val	Ser	Pro	Lys	Phe	Asn	Ser	Leu	Ala
			20					25					30		

Val	Val	Leu	Gln	Arg	Arg	Asp	Trp	Asp	Pro	Lys	Xaa	Xaa
		35				40					45	

&lt;210&gt; 6619

&lt;211&gt; 45

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 5861

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6619

Ile Ala Ser Gly Arg Ser Xaa Gly Ser Lys Leu Thr Tyr Ala Cys Met

1 5 10 15

Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala

20 25 30

Val Val Leu Gln Arg Arg Asp Trp Glu Thr Gln Xaa Xaa

35 40 45

&lt;210&gt; 6620

&lt;211&gt; 57

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (53)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (55)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (56)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6620

Arg Val Gly Thr Lys Thr Ser Arg Gly Xaa Lys Arg Ala Ala Ala Leu

1 5 10 15

Lys Asp Pro Ser Leu Arg Thr Arg Ala Cys Gly Arg His Ser Ser Ser

20 25 30

Ile Val Ser Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln Arg Arg

35 40 45

Asp Trp Asp Pro Xaa Asn Xaa Xaa Gly



5862

50

55

&lt;210&gt; 6621

&lt;211&gt; 42

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (31)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (39)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6621

Met Asp Ile Ser Leu Leu Lys Lys Lys Lys Lys Gly Gly Arg Ser Arg

1

5

10

15

Gly Ser Lys Leu Thr Tyr Ala Cys Met Arg Arg His Ser Ser Xaa Ile

20

25

30

Xaa Ser Pro Lys Phe Asn Xaa Leu Ala Arg

35

40

&lt;210&gt; 6622

&lt;211&gt; 77

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5863

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (56)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (77)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6622

Ile Xaa Gly Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met

1

5

10

15

Arg Arg His Ser Ser Ser Ile Xaa Thr Pro Lys Phe Asn Ser Leu Ala

20

25

30

Val Xaa Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu

35

40

45

Asn Arg Leu Ala Ala His Pro Xaa Phe Ala Ser Trp Arg Asn Ser Glu

50

55

60

Glu Ala Arg Thr Asp Arg Leu Ala Asn Arg Cys Ala Xaa

65

70

75

&lt;210&gt; 6623

&lt;211&gt; 41

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (39)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (40)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

## 5864

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6623

Arg	Ile	Gln	Ala	Tyr	Arg	Thr	Arg	Ala	Cys	Arg	Arg	His	Ser	Ser	Ser
1					5				10					15	

Ile	Val	Ser	Pro	Lys	Phe	Asn	Ser	Leu	Ala	Val	Val	Leu	Gln	Arg	Arg
			20					25					30		

Asp	Trp	Glu	Asn	Pro	Asp	Xaa	Xaa	Xaa
			35				40	

<210> 6624

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6624

Leu	Arg	Gln	Ala	Leu	Ile	Arg	Leu	Thr	Ile	Xaa	Ile	Xaa	Trp	Tyr	Ala
1				5					10					15	

Cys	Arg	Tyr	Arg	Ser	Gly	Ile	Pro	Gly	Ser	Thr	His	Ala	Ser	Ala	His
			20					25					30		

Ala	Ser	Val
		35

<210> 6625

<211> 40

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

5865

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6625

Leu	Arg	Gln	Ala	Leu	Ile	Arg	Leu	Thr	Ile	Gly	Xaa	Xaa	Trp	Tyr	Ala
1				5					10					15	

Cys	Arg	Tyr	Arg	Ser	Gly	Ile	Pro	Gly	Ser	Thr	His	Ala	Ser	Ala	Lys
			20					25					30		

Ser	Asp	Arg	Ile	Val	Asn	Glu	Thr
			35				40

&lt;210&gt; 6626

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6626

Leu	Arg	Gln	Ala	Leu	Ile	Arg	Leu	Thr	Ile	Xaa	Ile	Xaa	Trp	Tyr	Ala
1				5					10					15	

Cys	Arg	Tyr	Arg	Ser	Gly	Ile	Pro	Gly	Ser	Thr	His	Ala	Ser	Glu	Tyr
			20					25					30		

Leu	Leu	Leu	Glu
			35

&lt;210&gt; 6627

&lt;211&gt; 33

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

5866

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6627

Pro	Xaa	Leu	Arg	Gln	Ala	Leu	Ile	Arg	Leu	Thr	Ile	Gly	Xaa	Ser	Trp
1				5				10					15		

Tyr	Ala	Cys	Arg	Tyr	Arg	Ser	Gly	Ile	Pro	Gly	Ser	Thr	His	Ala	Ser
			20					25					30		

Asp

&lt;210&gt; 6628

&lt;211&gt; 59

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (32)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

5867

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6628

Xaa Lys Gly Asn Xaa Xaa Thr Ala Met Thr Met Ile Thr Pro Ser Ser  
1 5 10 15

Asn Thr Thr His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Xaa  
20 25 30

Gly Xaa Pro Gly Ser Thr His Ala Xaa Ala His Ala Ser Xaa Pro Met  
35 40 45

Thr Thr Lys Gly Arg Lys Lys Tyr Phe Leu His  
50 55

&lt;210&gt; 6629

&lt;211&gt; 61

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (53)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 5868

&lt;222&gt; (61)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6629

Thr Ile Gly Asn Leu His Arg Ile Thr Ala Met Thr Met Ile Thr Pro

1

5

10

15

Ser Ser Asn Thr Thr His Tyr Xaa Glu Ser Trp Xaa Ala Cys Arg Tyr

20

25

30

Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Asp His Phe Ala His

35

40

45

Xaa Ser Phe Leu Xaa Glu His Ser Lys Lys Met Cys Xaa

50

55

60

&lt;210&gt; 6630

&lt;211&gt; 76

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (31)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (37)

## 5869

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6630

Met	Gly	Xaa	Leu	Pro	Pro	Pro	Phe	Pro	Gly	Lys	Thr	Xaa	Leu	Thr	Met
1				5					10				15		

Ile	Xaa	Pro	Ser	Ser	Asn	Thr	Thr	His	Tyr	Leu	Glu	Ser	Trp	Xaa	Ala
			20					25					30		

Cys	Arg	Xaa	Arg	Xaa	Gly	Ile	Pro	Xaa	Ser	Xaa	His	Ala	Ser	Gly	Ser
		35					40					45			

Arg	Glu	Glu	Ala	Xaa	Ala	Thr	Met	Glu	Asn	Lys	Xaa	Ile	Cys	Ala	Leu
	50					55					60				

Xaa Leu Xaa Xaa Met Leu Ala Leu Gly Thr Leu Ala



5870

65

70

75

&lt;210&gt; 6631

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (53)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (55)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6631

Xaa Gly Gly Xaa Leu Thr Gly Asn Xaa Asn Asn Phe Thr Gln Glu Thr  
1 5 10 15

Ala Met Thr Met Ile Thr Pro Ser Ser Asn Thr Thr His Tyr Arg Glu  
20 25 30

Ser Trp Tyr Ala Cys Arg Tyr Arg Xaa Gly Ile Pro Gly Ser Thr His  
35 40 45

Ala Ser Ala Trp Xaa Ser Xaa Ile  
50 55

## 5871

&lt;210&gt; 6632

&lt;211&gt; 44

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6632

Tyr	Asp	Ser	Leu	Phe	Gly	Lys	Val	Trp	Tyr	Ala	Cys	Arg	Tyr	Arg	Ser
1				5				10						15	

Gly	Ile	Pro	Gly	Ser	Thr	His	Ala	Ser	Gly	Ile	Phe	Val	Lys	Asn	Ile
			20					25					30		

Leu	His	Tyr	Leu	Gln	Asn	Lys	Glu	Thr	Arg	Xaa	Xaa
		35					40				

&lt;210&gt; 6633

&lt;211&gt; 33

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (23)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6633

Thr	Met	Leu	Arg	Gln	Ala	Leu	Ile	Arg	Leu	Thr	Ile	Gly	Lys	Cys	Trp
1				5				10						15	

Tyr	Val	Cys	Arg	Tyr	Arg	Xaa	Gly	Ile	Pro	Gly	Xaa	Thr	His	Ala	Ser
			20					25					30		

5872

Gly

&lt;210&gt; 6634

&lt;211&gt; 40

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6634

Val	Ser	Ile	Gly	Asn	Ser	Leu	Thr	Met	Ile	Thr	Pro	Ser	Ser	Asn	Thr
1				5				10						15	

Thr	His	Tyr	Arg	Glu	Xaa	Trp	Tyr	Ala	Cys	Arg	Tyr	Arg	Ser	Gly	Ile
			20					25					30		

Pro	Gly	Ser	Thr	His	Ala	Ser	Gly
	35					40	

&lt;210&gt; 6635

&lt;211&gt; 52

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (47)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6635

Arg	Glu	Tyr	Ser	Phe	Leu	Leu	Glu	Thr	Ala	Ile	Thr	Met	Ile	Thr	Pro
1				5				10						15	

## 5873

Ser Ser Asn Thr Thr His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr  
                   20                  25                  30  
 Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Glu Xaa Xaa Xaa Arg  
                   35                  40                  45  
 Thr Leu Lys Asn  
                   50

&lt;210&gt; 6636

&lt;211&gt; 60

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (23)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6636

Thr Val Ser Leu Gly Asn Ser Leu Thr Met Ile Thr Pro Ser Ser Asn  
   1                  5                  10                  15

Thr Thr His Tyr Arg Glu Xaa Trp Tyr Ala Cys Arg Tyr Arg Ser Gly  
                   20                  25                  30

Ile Pro Gly Ser Thr His Ala Ser Glu Ser Phe Lys Ser Trp Val Phe  
                   35                  40                  45

Arg Leu Leu Cys Ser Ser Cys Val Phe Asn Ile Leu  
                   50                  55                  60

&lt;210&gt; 6637

&lt;211&gt; 61

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

5874

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (52)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (59)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (60)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6637

Glu	Xaa	Pro	Xaa	Phe	Ile	Leu	Glu	Thr	Ala	Ile	Thr	Met	Ile	Thr	Pro
1				5					10					15	

Ser	Ser	Asn	Thr	Thr	His	Tyr	Arg	Glu	Ser	Trp	Tyr	Ala	Cys	Arg	Tyr
			20					25					30		

Arg	Ser	Gly	Ile	Pro	Gly	Ser	Thr	His	Ala	Ser	Gly	Pro	Xaa	Lys	Ile
		35					40					45			

Arg	Lys	His	Xaa	Ser	Tyr	Ser	His	Val	Glu	Xaa	Xaa	Ala
	50					55					60	

&lt;210&gt; 6638

&lt;211&gt; 44

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

5875

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6638

Ala	Xaa	Xaa	Pro	His	Phe	Xaa	Thr	Thr	His	Tyr	Arg	Glu	Xaa	Trp	Tyr
1				5					10					15	

Ala	Cys	Arg	Tyr	Arg	Ser	Gly	Ile	Pro	Gly	Ser	Thr	His	Ala	Ser	Glu
			20					25					30		

Ile	Thr	Phe	Cys	Gly	His	Cys	Lys	Ile	Asn	Ile	Trp
			35				40				

&lt;210&gt; 6639

&lt;211&gt; 77

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (55)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6639

Ile	Ala	Ser	Gly	Arg	Ser	Arg	Gly	Ser	Lys	Leu	Thr	Tyr	Ala	Cys	Met
1				5					10					15	

Arg	Arg	His	Ser	Ser	Ser	Ile	Val	Ser	Pro	Lys	Phe	Asn	Ser	Leu	Ala
			20					25					30		

Xaa	Val	Leu	Gln	Arg	Arg	Asp	Trp	Glu	Asn	Pro	Gly	Val	Thr	Gln	Leu
			35				40					45			

Asn	Arg	Leu	Ala	Ala	His	Xaa	Pro	Phe	Ala	Ala	Gly	Val	Ile	Ala	Lys
			50			55					60				

Lys	Pro	Ala	Pro	Ile	Gly	Leu	Pro	Thr	Ser	Cys	Ala	Ala
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

## 5876

65

70

75

&lt;210&gt; 6640

&lt;211&gt; 64

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (60)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

5877

&lt;222&gt; (62)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6640

Lys Lys Xaa Xaa Xaa Xaa Lys Lys Lys Gly Gly Arg Ser Xaa Gly

1

5

10

15

Ser Lys Leu Thr Tyr Ala Cys Met Arg Arg His Xaa Ser Ser Ile Val

20

25

30

Ala Pro Lys Phe Asn Tyr Trp Pro Arg Phe Thr Thr Ser Asp Trp Glu

35

40

45

Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Gly Xaa Asn Xaa Leu Leu

50

55

60

&lt;210&gt; 6641

&lt;211&gt; 72

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (23)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids



## 5878

<220>  
<221> SITE  
<222> (26)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (28)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (30)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (33)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (39)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (62)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (70)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6641  
Tyr Ser Tyr Xaa Leu Pro Tyr Xaa Ile Phe Ile Leu Asn Lys Ile Ile  
1 5 10 15  
Trp Arg Phe Leu Pro Gln Xaa Xaa Xaa Xaa Lys Xaa Xaa Xaa Pro Ser  
20 25 30

5879

Xaa Lys Gly Gly Arg Xaa Xaa Arg Ser Lys Leu Thr Tyr Ala Cys Met  
35 40 45

Gln Arg His Asn Ser Ser Ile Val Ser Leu Asn Ser Ile Xaa Trp Ala  
50 55 60

Val Val Leu Gln Arg Xaa Asp Trp  
65 70

<210> 6642

<211> 38

<212> PRT

<213> Homo sapiens

$\langle 220 \rangle$

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

&lt;221&gt; SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

**<220>**

&lt;221&gt; SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6642

Arg Thr Xaa Phe Trp Asn Thr Xaa Xaa Tyr Arg Glu Ser Trp Tyr Ala  
1 5 10 15

5880

Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Gly Xaa  
          20                  25                  30

Leu Xaa Gly Xaa Gly Leu  
          35

&lt;210&gt; 6643

&lt;211&gt; 80

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (29)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (40)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (55)

5881

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6643

Ile	Arg	Xaa	Xaa	Xaa	Leu	Arg	Xaa	Asp	Thr	Thr	His	Tyr	Arg	Glu	Ser
1					5				10					15	

Trp	Tyr	Ala	Cys	Arg	Tyr	Arg	Ser	Gly	Ile	Pro	Gly	Xaa	Thr	His	Ala
			20					25					30		

Ser	Val	Glu	Ile	Cys	Pro	Pro	Xaa	Ser	Arg	Pro	Xaa	Ser	Ser	Gln	Ser
		35					40					45			

Asn	Gly	Glu	Gly	Tyr	Ser	Xaa	Cys	Arg	Arg	Pro	Gln	Ala	Leu	Glu	Ala
	50						55				60				

Ala	Thr	Tyr	Leu	Asn	Pro	Val	Pro	Xaa	Arg	Ile	Leu	Leu	Lys	Pro	Phe
65					70					75					80

<210> 6644

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

## 5882

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6644

Pro	Xaa	Ala	Trp	Xaa	Leu	Xaa	Thr	Gln	Leu	Gly	Thr	Thr	His	Tyr	Arg
1				5				10						15	

Glu	Ser	Trp	Tyr	Ala	Cys	Arg	Tyr	Arg	Ser	Gly	Ile	Pro	Gly	Ser	Thr
			20					25					30		

His	Ala	Ser	Gly	Lys	Thr	Trp	Ile	Ile	Xaa	Val	Cys	Cys	Thr	Arg	Gly
			35				40					45			

Ser	Xaa	Gly	Xaa	Leu	Thr	Ala	Lys	Asn	Asp
	50						55		

<210> 6645

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

5883

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (37)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (39)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6645

Phe Gly Ile Gln Leu Xaa Xaa Xaa Arg Leu Gly Thr Thr His Tyr Arg

1

5

10

15

Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr

20

25

30

His Ala Xaa Asp Xaa Met Xaa Leu Trp Leu Leu Gln

35

40

&lt;210&gt; 6646

&lt;211&gt; 59

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (32)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (47)

## 5884

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6646

Thr	Pro	Val	Gly	Thr	Thr	His	Tyr	Arg	Glu	Xaa	Trp	Tyr	Ala	Cys	Arg
1				5				10					15		

Tyr	Arg	Ser	Gly	Ile	Pro	Gly	Ser	Thr	His	Ala	Ser	Gly	Ala	Glu	Xaa
			20				25						30		

Ser	Gly	Ile	Xaa	Leu	Glu	Ala	Gly	Lys	Asn	Gln	Xaa	Val	Leu	Xaa	Cys
			35				40					45			

Gly	Ser	Gly	Gln	Gly	Leu	Glu	Arg	Pro	Xaa	Pro
	50					55				

<210> 6647

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6647

Ile	Cys	Asn	Thr	Xaa	His	Tyr	Arg	Glu	Ser	Trp	Xaa	Ala	Cys	Arg	Tyr
1				5				10					15		

## 5885

Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Asp Ser Lys Asp Xaa  
                   20                  25                  30

Ser Val Asp Gly Ser Xaa  
                   35

<210> 6648

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6648

Pro Ile Phe Xaa Trp Lys His Ala Met Thr Met Ile Thr Pro Ser Ser  
   1                  5                  10                  15

Asn Thr Thr His Tyr Arg Xaa Ser Trp Xaa Ala Cys Arg Tyr Arg Ala  
                   20                  25                  30

Gly Ile Pro Gly Ser Thr His Ala Ser Gly Asp Xaa Xaa  
                   35                  40                  45

<210> 6649



5886

&lt;211&gt; 92

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (67)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (83)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (85)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6649

Tyr	Glu	Xaa	Xaa	Lys	Leu	Leu	Arg	Glu	Ser	Xaa	Asn	Asn	Phe	Thr	Gln
1				5					10					15	

Glu	Thr	Ala	Met	Thr	Met	Ile	Thr	Pro	Ser	Ser	Asn	Thr	Thr	His	Tyr
			20						25					30	

Arg	Glu	Ser	Trp	Tyr	Ala	Cys	Arg	Tyr	Arg	Ser	Gly	Ile	Pro	Gly	Ser
			35					40					45		

Thr	His	Ala	Ser	Gly	Pro	Ser	Arg	Glu	Ile	Pro	Arg	Ser	Leu	His	Leu
			50				55				60				

Val	Ile	Xaa	Thr	Glu	His	Arg	Pro	Pro	Thr	Met	Glu	Leu	Gly	Leu	Ser
			65			70				75					80

Trp	Ile	Xaa	Leu	Xaa	Ala	Met	Ile	Lys	Gly	Val	Asn
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

5888

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Xaa Lys Lys  
35 40 45

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys  
50 55 60

Lys Lys Lys Xaa Gly Xaa Xaa  
65 70

<210> 6651

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

5889

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (61)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6651

Asn	Leu	Thr	Gln	Val	Ala	Ala	Met	Xaa	Met	Ile	Thr	Xaa	Xaa	Ser	Asn
1				5					10					15	

Thr	Thr	His	Tyr	Arg	Glu	Ser	Xaa	Tyr	Ala	Cys	Arg	Tyr	Arg	Ser	Gly
			20					25					30		

Ile	Pro	Gly	Ser	Thr	His	Ala	Leu	Arg	Tyr	Cys	Gly	Pro	Xaa	Ala	His
		35					40						45		

Arg	Phe	Thr	Ser	Pro	Pro	Cys	Xaa	Ser	Leu	Xaa	Leu	Xaa	Met	Leu	Met
	50					55					60				

&lt;210&gt; 6652

&lt;211&gt; 52

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6652

Thr	Cys	Ser	Pro	Gly	Lys	Xaa	Xaa	Thr	Ile	Leu	His	Arg	Lys	Thr	Ala
1				5					10					15	

5890

Met Thr Met Ile Thr Pro Ser Ser Asn Thr Thr His Tyr Arg Glu Ser  
20 25 30

Xaa Xaa Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala  
35 40 45

Ser Gly Gln Ala  
50

&lt;210&gt; 6653

&lt;211&gt; 39

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (31)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6653

Gln Glu Thr Ala Met Thr Met Ile Thr Pro Ser Ser Asn Thr Thr His  
1 5 10 15

Tyr Arg Asp Cys Trp Xaa Ala Cys Arg Tyr Arg Ala Gly Ile Xaa Gly  
20 25 30

Ser Thr His Ala Ser Xaa Arg  
35

&lt;210&gt; 6654

&lt;211&gt; 62

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

## 5891

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (27)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (32)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (56)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (58)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (61)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6654

Leu	Leu	Asp	Asn	Thr	Leu	Thr	Gln	Xaa	Thr	Ala	Met	Thr	Met	Ile	Thr
1				5				10						15	

Pro	Ser	Ser	Asn	Thr	Thr	His	Tyr	Arg	Xaa	Xaa	Trp	Tyr	Ala	Cys	Xaa
			20					25					30		

Tyr	Arg	Ser	Gly	Ile	Pro	Gly	Ser	Thr	His	Ala	Ser	Val	Xaa	Arg	Leu
		35					40					45			

Leu	Ala	Thr	Cys	Phe	Ala	Arg	Xaa	Arg	Xaa	Thr	Tyr	Xaa	Thr
	50					55					60		

5892

&lt;210&gt; 6655

&lt;211&gt; 73

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6655

Xaa	Asn	Xaa	Xaa	Thr	Gln	Asp	Thr	Ala	Met	Thr	Met	Ile	Thr	Pro	Ser
1				5					10					15	

Ser	Asn	Thr	Thr	His	Tyr	Arg	Xaa	Ser	Cys	Tyr	Ala	Cys	Xaa	Tyr	Arg
		20						25					30		

Ser	Gly	Ile	Pro	Gly	Ser	Thr	His	Ala	Ser	Ala	Phe	Gly	Val	His	Lys
		35					40					45			

Met	Ser	Gly	Ser	Leu	Asn	Phe	Leu	Ser	Asn	Leu	Glu	Cys	Leu	Leu	His
		50				55					60				

Leu	Phe	Asn	Phe	Cys	Lys	Cys	Leu	Lys
		65			70			

&lt;210&gt; 6656

5893

&lt;211&gt; 103

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (62)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (100)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (101)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (103)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6656

Leu	Xaa	Cys	Thr	Lys	Lys	Lys	Lys	Lys	Gly	Gly	Arg	Ser	Arg	Gly	Ser
1				5					10					15	

Lys	Leu	Thr	Tyr	Ala	Cys	Met	Arg	Arg	His	Ser	Ser	Ser	Ile	Val	Ser
			20					25						30	

Pro	Lys	Phe	Asn	Ser	Leu	Ala	Val	Val	Leu	Gln	Arg	Arg	Asp	Trp	Glu
			35				40					45			

Asn	Pro	Gly	Val	Thr	Gln	Leu	Asn	Arg	Leu	Ala	Ala	His	Xaa	Pro	Phe
	50					55					60				

Ala	Ser	Trp	Arg	Asn	Ser	Glu	Glu	Ala	Arg	Thr	Asp	Arg	Pro	Ser	Gln
65					70				75						80

Gln	Leu	Arg	Ser	Leu	Asn	Gly	Glu	Trp	Asp	Ala	Pro	Cys	Ser	Gly	Ala
				85					90					95	

Leu	Ser	Ala	Xaa	Xaa	Val	Xaa
						100

5894

&lt;210&gt; 6657

&lt;211&gt; 109

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (50)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (53)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (58)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (94)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (96)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (108)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (109)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6657

Ile Ala Ser Gly Arg Ser Arg Gly Xaa Lys Leu Thr Tyr Ala Cys Met

1

5

10

15



## 5895

Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu Ala  
                   20                  25                  30  
 Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu  
                   35                  40                  45  
 Asn Xaa Leu Ala Xaa His Pro Pro Phe Xaa Ser Trp Arg Asn Ser Glu  
                   50                  55                  60  
 Glu Ala Arg Thr Asp Arg Pro Phe Gln Gln Leu Arg Ser Leu Asn Gly  
                   65                  70                  75                  80  
 Glu Trp Asp Ala Pro Cys Ser Gly Ala Leu Ser Ala Ala Xaa Val Xaa  
                   85                  90                  95  
 Val Thr Arg Ser Val Thr Val Thr Leu Ala Arg Xaa Xaa  
                   100                  105

&lt;210&gt; 6658

&lt;211&gt; 84

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (57)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (61)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 5896

&lt;221&gt; SITE

&lt;222&gt; (63)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6658

Lys	Lys	Lys	Xaa	Glu	Lys	Xaa	Lys	Gly	Gly	Arg	Ser	Arg	Gly	Ser	Lys
1				5				10					15		

Leu	Thr	Tyr	Ala	Cys	Met	Arg	Arg	His	Ser	Ser	Ser	Ile	Gly	Ser	Pro
			20					25					30		

Lys	Xaa	Asn	Ser	Leu	Ala	Val	Val	Leu	Gln	Arg	Arg	Asp	Trp	Glu	Asn
		35						40				45			

Pro	Gly	Val	Thr	Gln	Leu	Arg	Gly	Xaa	Gly	Ser	Thr	Xaa	Pro	Xaa	Arg
	50					55					60				

Gln	Leu	Ala	Glu	Glu	Arg	Arg	Gly	Ala	Ala	Pro	Ile	Ala	Leu	Ala	Asn
65					70					75					80

Ser Cys Ala Ala

&lt;210&gt; 6659

&lt;211&gt; 101

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

5897

<221> SITE  
 <222> (68)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (76)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (85)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (97)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (101)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 6659  
 Lys Xaa Lys Lys Lys Lys Gly Gly Arg Ser Xaa Gly Ser Lys Leu Thr  
   1                  5                  10                  15  
 Tyr Ala Cys Met Xaa Arg His Ser Ser Ser Ile Xaa Ser Pro Lys Phe  
           20                  25                  30  
 Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly  
       35                  40                  45  
 Val Thr Gln Leu Asn Arg Leu Ala Ala His Pro Pro Phe Ala Ser Trp  
       50                  55                  60  
 Arg Asn Ser Xaa Lys Ala Arg Thr Asp Arg Pro Xaa Gln Gln Leu Arg  
   65                  70                  75                  80  
 Ser Leu Asn Gly Xaa Met Gly Thr Arg Pro Val Thr Gly Ala Leu Ser  
           85                  90                  95  
  
 Xaa Ala Gly Trp Xaa  
       100  
  
 <210> 6660  
 <211> 92  
 <212> PRT

## 5898

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6660

Phe	Xaa	Xaa	Xaa	Ser	Gly	Arg	Ser	Arg	Gly	Ser	Lys	Leu	Thr	Tyr	Ala
1				5					10					15	

Cys	Met	Arg	Arg	Tyr	Ser	Tyr	Ser	Ile	Val	Ser	Pro	Lys	Phe	Asn	Ser
		20						25					30		

Leu	Ala	Val	Val	Leu	Gln	Arg	Xaa	Asp	Trp	Glu	Asn	Pro	Gly	Val	Thr
		35					40						45		

Xaa	Leu	Asn	Arg	Leu	Ala	Ala	His	Pro	Pro	Phe	Ala	Ser	Trp	Cys	Asn
	50					55					60				

Ser	Glu	Glu	Ala	Arg	Thr	Asp	Arg	Pro	Ser	Gln	Gln	Leu	Arg	Lys	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

5899

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65              70              75              80
Asn Gly Glu Trp Asp Pro Ala Leu Xaa Arg Gly Xaa
      85              90

<210> 6661
<211> 59
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6661
Asn Thr Lys Asn Pro Xaa Lys Lys Lys Lys Lys Lys Gly Gly Arg Ser
 1              5              10              15
Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met Arg Arg His Ser Ser Ser
      20              25              30
Ile Val Xaa Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln Arg Xaa
      35              40              45
Xaa Trp Glu Asn Pro Gly Val Thr Gln Xaa Asn
      50              55

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## 5900

&lt;210&gt; 6662

&lt;211&gt; 71

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6662

Ile Lys Val Ile Thr Ile Lys Lys Lys Lys Lys Lys Gly Gly Arg Ser  
1 5 10 15

Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met Arg Arg His Ser Ser Ser  
20 25 30

Ile Val Ser Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln Arg Arg  
35 40 45

Asp Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala His  
50 55 60

Pro Pro Phe Ala Ser Trp Pro  
65 70

&lt;210&gt; 6663

&lt;211&gt; 61

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6663

Xaa Xaa Asp Leu Xaa Cys Gln Xaa Asp Tyr Arg Glu Ser Trp Tyr Ala

## 5901

1	5	10	15
Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Ala Gln			
	20	25	30
Leu Leu Arg Ser Glu Pro Phe Pro Leu His Phe Leu Phe Thr Gln Gly			
	35	40	45
Gly Ala Gly Ser Gly Gly Arg Lys Leu Gly Gly Gly Val			
	50	55	60

&lt;210&gt; 6664

&lt;211&gt; 44

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (23)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6664

Ile Ala Ser Gly Arg Ser Ile Gly Ser Lys Leu Thr Tyr Ala Cys Met
1 5 10 15

Arg Arg His Asn Ser Ser Xaa Val Ser Pro Lys Xaa Asn Ser Leu Ala
20 25 30

Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Xaa
35 40

&lt;210&gt; 6665

&lt;211&gt; 45

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

## 5902

<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (10)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (35)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (41)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6665  
Gly Xaa Xaa Leu Thr Phe Pro Phe Met Xaa Xaa His Asn Ser Ser Ile  
1 5 10 15  
Val Ser Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln Arg Pro Asp  
20 25 30  
Trp Xaa Xaa Lys Asn Xaa Arg Asn Xaa Lys Val Arg Arg  
35 40 45



## 5903

&lt;210&gt; 6666

&lt;211&gt; 53

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (32)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (39)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6666

Thr	Ser	Ser	Arg	Xaa	Ala	Ser	Gly	Arg	Ser	Arg	Gly	Ser	Lys	Leu	Thr
1				5				10					15		

Tyr	Ala	Cys	Met	Arg	Arg	His	Ser	Ser	Ser	Ile	Val	Ser	Pro	Lys	Xaa
			20				25					30			

Asn	Ser	Leu	Ala	Val	Val	Xaa	Gln	Arg	Arg	Asp	Trp	Glu	Asn	Pro	Arg
		35					40					45			

Xaa	Ser	Cys	Gly	Ser
				50

&lt;210&gt; 6667

&lt;211&gt; 51

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 5904

&lt;221&gt; SITE

&lt;222&gt; (50)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (51)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6667

Thr	Ser	Ser	Ser	Ile	Ala	Ser	Gly	Arg	Ser	Arg	Arg	Ser	Lys	Leu	Thr
1				5				10					15		

Tyr	Ala	Cys	Met	Arg	Arg	His	Ser	Ser	Ser	Ile	Val	Ser	Pro	Lys	Phe
			20				25					30			

Asn	Ser	Leu	Ala	Val	Val	Leu	Gln	Arg	Arg	Asp	Trp	Glu	Pro	Gln	Lys
		35					40					45			

Xaa	Xaa	Xaa
	50	

&lt;210&gt; 6668

&lt;211&gt; 52

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (42)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 5905

&lt;222&gt; (48)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6668

Ser Leu Arg Tyr Ala Cys Met Arg Arg His Ser Ser Ser Ile Xaa Ser

1

5

10

15

Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp Trp Glu

20

25

30

Asn Xaa Xaa Lys Ser Cys Lys Arg Gly Xaa Glu Leu Asn Leu Val Xaa

35

40

45

Tyr Arg Arg Leu

50

&lt;210&gt; 6669

&lt;211&gt; 46

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (29)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6669

Leu Phe Ile Xaa Ala Pro Lys Phe Asn Ser Leu Gly Pro Ser Phe Thr

1

5

10

15

Arg Xaa Asp Trp Glu Asn Pro Gly Val Thr Gln Leu Xaa Arg Leu Gly

20

25

30

Xaa Asn Pro Pro Phe Ala Asn Trp Gly Ile Thr Lys Lys Ala

## 5906

35

40

45

&lt;210&gt; 6670

&lt;211&gt; 29

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (19)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6670

Ile Gln Phe Thr Xaa Arg Xaa Leu Gln Xaa Xaa Asp Trp Glu Asn Pro

1

5

10

15

Gly Val Xaa Gln Leu Asn Arg Leu Ala Ala His Pro Pro

20

25

&lt;210&gt; 6671

&lt;211&gt; 158

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

## 5907

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

## 5908

<220>  
<221> SITE  
<222> (70)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (78)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (81)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (101)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (104)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (110)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (111)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (118)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (135)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (136)  
<223> Xaa equals any of the naturally occurring L-amino acids

## 5909

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (139)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (145)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6671

Arg	Gly	Trp	Ala	Xaa	Xaa	Pro	Xaa	Arg	Arg	Xaa	Pro	Val	Glu	Asp	Xaa
1				5				10						15	

His	Leu	Pro	Arg	Leu	Val	Ser	Arg	Thr	Pro	Gly	Thr	Xaa	Pro	Xaa	Tyr
			20					25					30		

Xaa	His	Ser	Tyr	Leu	Gly	Ser	Ala	Arg	Glu	Arg	Gln	Ala	Arg	Ser	Glu
		35					40					45			

Gly	Xaa	Ser	Xaa	Gly	Gly	Xaa	Leu	Glu	Thr	Pro	Ser	Lys	Arg	Ser	Ala
	50					55					60				

Gln	Ile	Gly	Pro	Arg	Xaa	Ala	Ser	Tyr	Tyr	Ala	Trp	Ser	Xaa	Pro	Gly
65					70					75					80

Xaa	Tyr	Lys	Ala	Gly	Ser	Ser	Gln	Asp	Asp	Gln	Glu	Asp	Ala	Cys	Asp
				85					90					95	

Asp	Ala	Leu	Ser	Xaa	Tyr	Ser	Xaa	Leu	Glu	Leu	Thr	Arg	Xaa	Xaa	Ser
		100						105					110		

Tyr	Arg	Gly	Arg	Ser	Xaa	Gly	Ser	Lys	Leu	Thr	Tyr	Ala	Cys	Met	Arg
		115					120					125			

Arg	His	Ser	Ser	Ser	Ile	Xaa	Xaa	Pro	Lys	Xaa	Asn	Ser	Leu	Ala	Val
	130					135					140				

Xaa	Leu	Gln	Arg	Arg	Asp	Trp	Glu	Asn	Pro	Gly	Val	Thr	Gln
145					150					155			

&lt;210&gt; 6672

&lt;211&gt; 77

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

## 5910

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6672

Ser	Val	Asn	Val	Thr	Ile	Lys	Ser	Ser	Lys	Val	Lys	Lys	Xaa	Xaa	Lys
1					5				10					15	

Gly	Gly	Arg	Ser	Arg	Gly	Ser	Lys	Leu	Thr	Tyr	Ala	Cys	Met	Arg	Arg
			20					25					30		

His	Xaa	Ser	Ser	Ile	Val	Ser	Pro	Lys	Xaa	Asn	Ser	Leu	Ala	Gly	Xaa
		35						40				45			

Phe	Thr	Thr	Val	Val	Thr	Gly	Lys	Asn	Pro	Gly	Val	Thr	Gln	Leu	Asn
	50					55					60				

Arg	Leu	Cys	Xaa	His	Ile	Pro	Pro	Phe	Arg	Gln	Leu	Ala
65					70					75		

<210> 6673

<211> 77

<212> PRT

<213> Homo sapiens

<220>



## 5911

<221> SITE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (36)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (42)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (58)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (61)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (64)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

## 5912

&lt;222&gt; (68)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (74)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6673

Gln Gln Xaa Xaa Ser Leu Asn Gly Xaa Trp His Ala Pro Cys Ser Gly  
1 5 10 15

Ala Leu Xaa Ala Ala Xaa Val Val Asp Thr Arg Ser Val Thr Ala Thr  
20 25 30

Leu Ala Ser Xaa Leu Arg Pro Leu Leu Xaa Leu Tyr Phe Pro Ser Phe  
35 40 45

Leu Ala Thr Phe Ser Arg Leu Ser Pro Xaa Lys Leu Xaa Asn Arg Xaa  
50 55 60

Ala Ser Leu Xaa Gly Val Pro Ile Leu Xaa Ala Phe Tyr  
65 70 75

&lt;210&gt; 6674

&lt;211&gt; 90

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (74)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (83)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5913

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (84)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (89)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6674

Arg	His	Ser	Ser	Ser	Ile	Val	Ser	Pro	Lys	Phe	Asn	Ser	Leu	Ala	Val
1				5					10					15	

Val	Leu	Gln	Arg	Arg	Asp	Trp	Glu	Asn	Pro	Gly	Val	Thr	Gln	Leu	Asn
			20					25					30		

Arg	Leu	Ala	Ala	His	Xaa	Pro	Phe	Ala	Ser	Trp	Xaa	Asn	Ser	Glu	Glu
		35					40					45			

Ala	Arg	Thr	Asp	Arg	Thr	Ser	Gln	Gln	Leu	Arg	Ser	Leu	Asn	Gly	Glu
	50					55					60				

Trp	Asp	Ala	Pro	Cys	Ser	Gly	Ala	Leu	Xaa	Ala	Ala	Gly	Val	Val	Val
65					70					75					80

Thr	Arg	Xaa	Xaa	Thr	Ala	Thr	Leu	Xaa	Ser
				85				90	

&lt;210&gt; 6675

&lt;211&gt; 63

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5914

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6675

Cys	Met	Arg	Arg	His	Ser	Xaa	Xaa	Ile	Xaa	Xaa	Pro	Lys	Phe	Asn	Ser
1				5				10						15	

Leu	Ala	Val	Val	Leu	Gln	Arg	Arg	Asp	Trp	Glu	Asn	Pro	Gly	Val	Thr
			20					25					30		

Gln	Leu	Asn	Arg	Leu	Ala	Ala	His	Pro	Pro	Phe	Ala	Ser	Trp	Arg	Asn
		35					40					45			

Ser	Glu	Glu	Ala	Arg	Thr	Asp	Arg	Pro	Ser	Gln	Gln	Leu	Arg	Ser
	50					55					60			

&lt;210&gt; 6676

&lt;211&gt; 137

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (119)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (124)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (132)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 5915

&lt;221&gt; SITE

&lt;222&gt; (133)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6676

Ile Lys Leu Gly Asn Gln Lys Lys Lys Lys Xaa Lys Gly Gly Arg  
 1 5 10 15

Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met Arg Arg His Ser Ser  
 20 25 30

Ser Ile Val Xaa Pro Lys Phe Asn Ser Leu Ala Val Val Leu Gln Arg  
 35 40 45

Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala  
 50 55 60

His Pro Pro Phe Ala Ser Trp Arg Asn Ser Glu Glu Ala Arg Thr Asp  
 65 70 75 80

Arg Pro Ser Gln Gln Leu Arg Ser Leu Asn Gly Glu Trp Asp Ala Pro  
 85 90 95

Cys Ser Gly Ala Leu Ser Ala Ala Gly Val Val Val Thr Pro Gln Arg  
 100 105 110

Asp Pro Leu His Leu Pro Xaa Pro Tyr Arg Pro Xaa Pro Ser Leu Ser  
 115 120 125

Ser Leu Pro Xaa Xaa Pro Arg Ser Pro  
 130 135

&lt;210&gt; 6677

&lt;211&gt; 92

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (37)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (61)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6677

Glu Asn Pro Gly Gly Thr Gln Leu Asn Arg Leu Ala Ala His Pro Pro

## 5916

1	5	10	15												
Phe	Ala	Ser	Trp	Arg	Asn	Ser	Glu	Glu	Ala	Arg	Thr	Asp	Arg	Pro	Ser
			20					25					30		
Gln	Gln	Leu	Arg	Xaa	Leu	Asn	Gly	Glu	Trp	Asp	Ala	Pro	Cys	Ser	Gly
		35					40					45			
Ala	Leu	Ser	Ala	Ala	Gly	Val	Val	Gly	Thr	Arg	Ser	Xaa	Thr	Ala	Thr
	50					55					60				
Leu	Ala	Ala	Pro	Ser	Ala	Ala	Leu	Ser	Leu	Leu	Pro	Ser	Phe	Ser	His
65					70					75					80
Val	Gly	Gly	Phe	Pro	Val	Ser	Ser	Asn	Gly	Ala	Pro				
					85					90					

&lt;210&gt; 6678

&lt;211&gt; 47

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (19)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (47)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6678

Leu Ile Asp Arg Ser Xaa Arg Tyr Leu Pro Leu Xaa Ile Ile Leu Lys

## 5917

1		5		10		15									
Thr	Leu	Xaa	Ala	Met	Val	Phe	Asn	Thr	Phe	Asn	Val	Leu	His	Trp	Gln
			20					25					30		
Arg	Ile	Xaa	Asp	Gln	Ser	Leu	Pro	Tyr	His	Asn	Ile	Thr	Tyr	Xaa	
		35					40					45			

&lt;210&gt; 6679

&lt;211&gt; 147

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (36)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (82)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (83)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (92)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (94)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (120)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 5918

&lt;221&gt; SITE

&lt;222&gt; (127)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (140)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (145)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6679

Thr	Pro	Pro	Tyr	Cys	Pro	Lys	Ile	Gln	Ser	Pro	Pro	Tyr	Ser	Ser	Gln
1				5				10					15		

Gly	Thr	Thr	Ser	Asp	Ala	Ser	Leu	Trp	Thr	Pro	Pro	Gln	Gly	Cys	Pro
			20					25					30		

Trp	Thr	Gln	Xaa	Ser	Pro	Glu	Pro	Arg	Asn	Pro	Pro	Val	Pro	Trp	Thr
		35					40					45			

Xaa	Val	Pro	Ala	Thr	Leu	Glu	Leu	Ala	Ala	Val	Tyr	Gln	Gly	Leu	Ser
	50					55					60				

Val	Ser	Pro	Glu	Pro	Cys	Leu	Ser	Leu	Gly	Ala	Pro	Ser	Leu	Leu	Pro
65					70					75					80

His	Xaa	Xaa	Cys	Gln	Arg	Leu	Gln	Pro	Gln	Thr	Xaa	Gly	Xaa	Cys	Trp
				85				90						95	

Ser	His	Ser	Ala	Glu	Val	Val	Pro	Asn	Ser	Glu	Asp	Gln	Gly	Pro	Gly
			100					105					110		

Ala	Ala	Phe	Gln	Leu	Ser	Glu	Xaa	Ser	Pro	Thr	Gln	Ser	Ser	Xaa	Leu
		115					120					125			

Gln	Phe	Ser	Gly	Cys	Pro	Glu	Leu	Trp	Gln	Glu	Xaa	Leu	Glu	Gly	Ala
	130						135				140				

Xaa Leu Gly

145

&lt;210&gt; 6680

&lt;211&gt; 172

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens



## 5919

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (158)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (159)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (167)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (170)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (172)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6680

Phe	Trp	Leu	Ala	Gly	Pro	Lys	Glu	Glu	Xaa	Met	Asp	Xaa	Asp	Ile	Pro
1				5					10					15	

Ala	Val	Lys	Val	Lys	Glu	Glu	Pro	Arg	Asp	Glu	Glu	Glu	Glu	Ala	Lys
		20						25						30	

Met	Lys	Ala	Pro	Pro	Lys	Ala	Ala	Arg	Lys	Thr	Pro	Gly	Leu	Pro	Lys
		35						40					45		

Asp	Val	Ser	Val	Ala	Glu	Leu	Leu	Arg	Glu	Leu	Ser	Leu	Thr	Lys	Glu
		50				55					60				

Glu	Glu	Leu	Leu	Phe	Leu	Gln	Leu	Pro	Asp	Thr	Leu	Pro	Gly	Gln	Pro
65					70					75					80

## 5920

```

Pro Thr Gln Asp Ile Lys Pro Ile Lys Thr Glu Val Gln Gly Glu Asp
      85                      90                      95

Gly Gln Val Val Leu Ile Lys Gln Glu Lys Asp Arg Glu Ala Lys Leu
      100                    105                    110

Ala Glu Asn Ala Cys Thr Leu Ala Asp Leu Thr Glu Gly Gln Val Gly
      115                    120                    125

Lys Leu Leu Ile Arg Lys Ser Gly Arg Val Gln Leu Leu Leu Gly Lys
      130                    135                    140

Val Thr Leu Asp Val Asp His Gly Asn Cys Leu Leu Leu Xaa Xaa Gly
      145                    150                    155                    160

Ala Gly Val Arg Gly Pro Xaa Arg Gln Xaa Asp Xaa
      165                    170

```

&lt;210&gt; 6681

&lt;211&gt; 55

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (53)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (54)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (55)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6681

```

Ile Ala Ala Ala Arg Val Trp Arg Leu Asn Arg Gly Leu Ser Gln Ala
  1             5             10             15

```

```

Ala Leu Leu Leu Leu Arg Gln Pro Gly Ala Arg Gly Leu Ala Arg Ser

```

## 5921

	20		25		30
Val Ser Thr Trp Ala Pro Gly Gly Phe Pro Lys Gly Asp Xaa Gly Cys					
	35		40		45
Lys Gly Tyr Leu Xaa Xaa Xaa					
	50		55		

&lt;210&gt; 6682

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6682

Gly Leu Gln Ser Asn Met Pro Lys Phe Tyr Cys Asp Tyr Cys Asp Thr					
1		5		10	15
Tyr Leu Thr His Asp Ser Pro Ser Val Arg Lys Thr His Cys Ser Gly					
	20		25		30
Arg Lys His Lys Glu Asn Val Lys Asp Tyr Tyr Leu Leu Leu His Ser					
	35		40		45
Leu Leu Leu Leu Leu Gln Gly Arg					
	50		55		

&lt;210&gt; 6683

&lt;211&gt; 102

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6683

Ser Phe Arg Arg Pro Met Ala Ser Ala Ser Thr Gln Pro Ala Ala Leu					
1		5		10	15
Ser Ala Glu Gln Ala Lys Val Val Leu Ala Glu Val Ile Gln Ala Phe					
	20		25		30
Ser Ala Pro Glu Asn Ala Val Arg Met Asp Glu Ala Arg Asp Asn Ala					
	35		40		45
Cys Asn Asp Met Gly Val Leu Lys Phe Ala Arg Leu Val Lys Ser Tyr					
	50		55		60
Glu Ala Gln Asp Pro Glu Ile Ala Ser Leu Ser Gly Lys Leu Lys Ala					
	65		70		75
					80

## 5922

Leu Phe Leu Pro Pro Met Thr Leu Pro Pro His Gly Pro Ala Ala Gly  
                             85                            90                            95

Gly Ser Val Ala Ala Ser  
                             100

<210> 6684

<211> 97

<212> PRT

<213> Homo sapiens

<400> 6684

Pro Arg Val Arg Ala Asp Ile Asn Thr Lys Trp Ala Ala Thr Arg Trp  
       1                            5                            10                            15

Ala Lys Lys Ile Glu Ala Arg Glu Arg Lys Ala Lys Met Thr Asp Phe  
                             20                            25                            30

Asp Arg Phe Lys Val Met Lys Ala Lys Lys Met Arg Asn Arg Ile Ile  
                             35                            40                            45

Lys Asn Glu Val Lys Lys Leu Gln Lys Ala Ala Leu Leu Lys Ala Ser  
                             50                            55                            60

Pro Lys Lys Ala Pro Gly Thr Lys Gly Thr Ala Ala Ala Ala Ala Ala  
       65                            70                            75                            80

Ala Ala Ala Ala Ala Ala Lys Val Pro Ala Lys Lys Ile Thr Ala Ala  
                             85                            90                            95

Asn

<210> 6685

<211> 87

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

## 5923

&lt;400&gt; 6685

Asn Ala Xaa Ile Ser Ser Leu Gly Ala Pro Gly Thr Gly Xaa Glu Phe  
 1 5 10 15

Pro Gly Arg Pro Thr Arg Pro Leu Met Glu Lys Glu Phe Pro Gly Phe  
 20 25 30

Leu Glu Asn Gln Lys Asp Pro Leu Ala Val Asp Lys Ile Met Lys Asp  
 35 40 45

Leu Asp Gln Cys Arg Asp Gly Lys Val Gly Phe Gln Ser Phe Phe Ser  
 50 55 60

Leu Ile Ala Gly Leu Thr Ile Ala Cys Asn Asp Tyr Phe Val Val His  
 65 70 75 80

Met Lys Gln Lys Gly Lys Lys  
 85

&lt;210&gt; 6686

&lt;211&gt; 106

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5924

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (65)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (71)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (96)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (98)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (102)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (106)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6686

Thr	Ile	Gly	Xaa	Gly	Gly	Thr	Pro	Ala	Gly	Thr	Gly	Pro	Glu	Phe	Pro
1				5					10					15	

Gly	Arg	Pro	Thr	Leu	Ser	Ser	Ala	Phe	Pro	Leu	Xaa	Thr	Ser	Thr	Leu
			20					25					30		

Ile	Gln	Xaa	Lys	Tyr	Asp	Pro	Ser	Leu	Lys	Pro	Leu	Xaa	Xaa	Ser	Tyr
		35					40					45			

Asp	Gln	Ala	Thr	Ser	Leu	Arg	Ile	Leu	Asn	Asn	Gly	His	Ala	Phe	Asn
	50					55					60				

Xaa	Glu	Leu	Asp	Asp	Ser	Xaa	Asp	Lys	Ala	Val	Leu	Lys	Gly	Gly	Pro
65					70					75					80

Leu	Asp	Gly	Thr	Asn	Arg	Trp	Ile	Lys	Leu	His	Phe	Asn	Trp	Gly	Xaa
				85					90					95	

Leu	Xaa	Gly	Gln	Arg	Xaa	Lys	Thr	Tyr	Xaa
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

## 5925

100

105

&lt;210&gt; 6687

&lt;211&gt; 110

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (27)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (37)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (57)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (59)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (85)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (86)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (97)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 5926

&lt;222&gt; (103)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6687

```

Ser Ser Arg Leu Ala Phe Pro Lys Ala Thr Glu Glu Xaa Lys Ala Ser
 1              5              10              15

Lys Pro His His Glu Trp Pro Ser Gly Thr Xaa Phe Ala Arg Thr Gly
              20              25              30

Asp Pro Asn Ser Xaa Ala Leu Pro Pro Trp Pro Gln Phe Asn Gln Ala
              35              40              45

Glu Thr Ile Ser Gly Asn Gln Pro Xaa Ala Xaa Gly Arg Thr Lys Phe
 50              55              60

Gln Gly Gly Leu Asp Ala Ile Leu Val Lys Asn Pro Pro Gln Gln Asn
 65              70              75              80

Thr Thr Trp Pro Xaa Xaa Gln Lys Asn Arg Lys Gly Pro Gly Gly Thr
              85              90              95

Xaa Glu Gly Arg Pro Lys Xaa Phe Leu Gly Leu Gly Gln Thr
              100              105              110

```

&lt;210&gt; 6688

&lt;211&gt; 129

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6688

```

Gly Phe Asn Asp Glu Leu Glu Ala Phe Lys Glu Arg Val Arg Gly Arg
 1              5              10              15

Ala Lys Leu Arg Ile Glu Lys Ala Met Lys Glu Tyr Glu Glu Glu Glu
              20              25              30

Arg Lys Lys Arg Leu Gly Pro Gly Gly Leu Asp Pro Val Glu Val Tyr
              35              40              45

Glu Ser Leu Pro Glu Glu Leu Gln Lys Cys Phe Asp Val Lys Asp Val
 50              55              60

Gln Met Leu Gln Asp Ala Ile Ser Lys Met Asp Pro Thr Asp Ala Lys
 65              70              75              80

Tyr His Met Gln Arg Cys Ile Asp Ser Gly Leu Trp Val Pro Asn Ser
              85              90              95

```



## 5927

Lys Ala Lys Arg Arg Pro Arg Arg Glu Arg Arg Gln Val Leu Gly Thr  
 100 105 110

His Tyr Trp Lys Leu Phe Pro Arg Arg Ala Met Arg Arg Met Ser Ser  
 115 120 125

Val

<210> 6689

<211> 177

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (163)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6689

Gly Phe Ile Ile Asp Asp Ser Val Leu Tyr Ser Gly Ala Ser Leu Asn  
 1 5 10 15

Asp Val Tyr Leu His Gln His Asp Lys Tyr Arg Tyr Asp Arg Tyr His  
 20 25 30

Leu Ile Arg Asn Arg Lys Met Ser Asp Ile Met Phe Glu Trp Val Thr  
 35 40 45

Gln Asn Ile Met Asn Gly Arg Gly Val Asn Arg Leu Asp Asp Val Asn  
 50 55 60

Arg Pro Lys Ser Pro Glu Ile Lys Asn Asp Ile Arg Leu Phe Arg Gln  
 65 70 75 80

Glu Leu Arg Asp Ala Ala Tyr His Phe Gln Gly Asp Ala Asp Asn Asp  
 85 90 95

Gln Leu Ser Val Thr Pro Leu Val Gly Leu Gly Lys Ser Ser Leu Leu  
 100 105 110

Asn Lys Thr Ile Phe His Leu Met Pro Cys Ala Glu Gln Lys Leu Thr  
 115 120 125

Ile Cys Thr Pro Tyr Phe Asn Leu Pro Ala Ile Leu Val Arg Asn Ile  
 130 135 140

Ile Gln Leu Leu Arg Glu Gly Lys Lys Val Glu Ile Ile Val Gly Asp  
 145 150 155 160

## 5928

Lys Thr Xaa Asn Asp Phe Tyr Ile Pro Glu Asp Glu Pro Phe Lys Ile  
                                   165                                  170                                  175

Ile

<210> 6690

<211> 93

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6690

His Glu Leu Val Arg Leu Xaa Gly Gly Cys Xaa Leu Leu Arg Cys Ile  
       1                                  5                                  10                                  15

Pro Ala Leu Asp Ser Leu Thr Pro Ala Asn Glu Asp Gln Lys Ile Gly  
                                   20                                  25                                  30

Ile Glu Ile Ile Lys Arg Thr Leu Lys Ile Pro Ala Met Thr Ile Ala  
                                   35                                  40                                  45

Lys Asn Ala Gly Val Glu Gly Ser Leu Ile Val Glu Lys Ile Met Gln  
                                   50                                  55                                  60

Ser Ser Ser Glu Val Gly Tyr Asp Ala Met Ala Gly Asp Phe Val Lys  
       65                                  70                                  75                                  80

Tyr Gly Gly Lys Arg Glu Ser Leu Thr Gln Gln Arg Leu  
                                   85                                  90

<210> 6691

<211> 105

<212> PRT

<213> Homo sapiens

<220>

## 5929

<221> SITE  
 <222> (10)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (30)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (45)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (58)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (71)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (84)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (91)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (105)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 6691  
 Gly Val Thr Phe Pro Val Pro Gln Ser Xaa Asp Ser Leu Leu Arg Ala  
   1                  5                  10                  15  
  
 Val Gly Pro Cys Pro Gln Gln Leu Gly Thr Gln Thr Thr Xaa Glu Arg  
           20                  25                  30  
  
 Glu Ser Gln Ala Ser Asn Thr Lys Val Thr Arg Asp Xaa Pro Lys Ser  
       35                  40                  45  
  
 Cys Asp Lys Thr Thr His Ala His Arg Xaa Arg Pro Glu Leu Leu Gly  
   50                  55                  60

## 5930

Gly Pro Gln Leu Leu Phe Xaa Gln Asn Pro Arg His Ala Met Ile Ser  
 65 70 75 80

Arg Pro Leu Xaa His Met Arg Gly Gly Asp Xaa Ser His Glu Asp Pro  
 85 90 95

Glu Ala Ser Gln Leu Asp Val Asp Xaa  
 100 105

&lt;210&gt; 6692

&lt;211&gt; 113

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (50)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (92)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (108)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6692

Arg Arg Val Ser Pro Gly Lys Asn Phe Pro Pro Gly Gly Val Pro Gly  
 1 5 10 15

Thr Pro Gln Thr Gly Arg Phe Ser Gly Ala Pro Gly Gly Gly Lys Arg  
 20 25 30

Gly Pro Ser Leu Arg Lys Lys Lys Gly Gly Gly Pro Ala Gln Phe Gly  
 35 40 45

Pro Xaa Ser Pro Lys Pro Gln Phe Arg Gly Gln Gly Pro Gly Ile Ser  
 50 55 60

Pro Trp Val Leu Leu Gly Ile Gln Pro Gly Gly Trp Gly Glu Arg Gly  
 65 70 75 80

Glu Thr Pro Ser Gly Arg Ser Pro Cys Arg Gly Xaa Ala Pro Leu Gly  
 85 90 95

## 5931

Gly Gly Arg Thr Thr Ser Lys Leu Leu Glu Thr Xaa Ser Pro Glu Cys  
100 105 110

Leu

<210> 6693

<211> 215

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (141)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (152)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (155)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (158)

## 5932

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (194)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (208)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6693

Glu	Phe	Ser	Tyr	Glu	Leu	Ser	Lys	Val	Glu	Gly	Lys	Thr	Gly	Thr	Pro
1				5					10					15	

Glu	Lys	Pro	Leu	Ser	Asp	Leu	Gly	Leu	Leu	Ser	Tyr	Arg	Ser	Tyr	Trp
			20					25						30	

Ser	Gln	Thr	Ile	Leu	Glu	Ile	Leu	Met	Gly	Leu	Lys	Ser	Glu	Ser	Gly
		35					40					45			

Glu	Arg	Pro	Gln	Ile	Thr	Ile	Asn	Glu	Ile	Ser	Glu	Ile	Thr	Ser	Ile
		50					55				60				

Lys	Lys	Glu	Asp	Val	Ile	Ser	Thr	Leu	Gln	Tyr	Leu	Asn	Leu	Ile	Asn
65					70					75					80

Tyr	Tyr	Lys	Gly	Gln	Tyr	Ile	Leu	Thr	Leu	Ser	Glu	Asp	Ile	Val	Asp
				85					90					95	

Gly	His	Glu	Arg	Ala	Met	Leu	Lys	Arg	Leu	Leu	Arg	Ile	Arg	Leu	Gln
			100					105					110		

Val	Ser	Ala	Xaa	Ile	Pro	Arg	Asp	Trp	Xaa	Lys	Lys	Gly	Gly	Xaa	Gly
		115						120				125			

Asp	Gln	Thr	Leu	Ala	Thr	Gly	Ile	Ala	Gln	Asp	Gly	Xaa	Gln	Gly	Leu
	130					135					140				

Gly	Gly	Leu	Asn	Ser	Pro	Xaa	Xaa	Ala	Pro	Xaa	Trp	Lys	Xaa	Pro	Thr
145					150					155					160

Lys	Ala	Thr	Phe	Lys	Gly	Lys	Met	Gly	Leu	Glu	Gly	Gln	Val	Gln	Lys
				165					170					175	

Arg	Asp	Arg	Thr	Arg	Ala	Leu	Ala	Gly	Gly	Pro	Thr	Gly	Trp	Pro	Asn
			180					185					190		

Thr	Xaa	Ala	Lys	Leu	Pro	Gly	Leu	Arg	Pro	Thr	Phe	Lys	Gly	Gln	Xaa
		195					200					205			

## 5933

Gly Pro Lys Ala Gln Gly Phe  
 210 215

<210> 6694

<211> 94

<212> PRT

<213> Homo sapiens

<400> 6694

Gly Tyr Thr Arg Ala Glu Tyr Glu Ser Glu Ala Glu Gly Val Met Ala  
 1 5 10 15

Gly Gln Ala Phe Arg Lys Phe Leu Pro Leu Phe Asp Arg Val Leu Val  
 20 25 30

Glu Arg Ser Ala Ala Glu Thr Val Thr Lys Gly Gly Ile Met Leu Pro  
 35 40 45

Glu Lys Ser Gln Gly Lys Val Leu Gln Ala Thr Val Val Ala Val Gly  
 50 55 60

Ser Gly Ser Lys Gly Lys Gly Gly Glu Ile Gln Pro Val Ser Val Lys  
 65 70 75 80

Val Gly Asp Lys Val Leu Leu Pro Glu Tyr Gly Gly Pro Lys  
 85 90

<210> 6695

<211> 112

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6695

Gly Ser Val Ser Pro Val Pro Val Ala Pro Leu Pro Pro Xaa Thr Met  
 1 5 10 15

## 5934

Gly Pro Gly Pro Arg Leu Leu Leu Pro Leu Val Leu Cys Val Gly Leu  
20 25 30

Gly Ala Leu Val Phe Ser Ser Gly Ala Glu Gly Phe Arg Lys Arg Gly  
35 40 45

Pro Ser Val Thr Ala Lys Val Phe Phe Asp Val Arg Ile Gly Asp Lys  
50 55 60

Asp Val Gly Arg Ile Val Ile Gly Leu Phe Gly Lys Val Val Pro Lys  
65 70 75 80

Thr Val Glu Asn Phe Val Ala Leu Ala Thr Gly Glu Lys Gly Tyr Gly  
85 90 95

Tyr Lys Gly Ser Lys Phe Ser Ser Cys His Gln Gly Phe His Asp Xaa  
100 105 110

<210> 6696

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)



## 5935

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6696

Trp	Arg	Asp	Val	Ser	Arg	Glu	Ser	Thr	Tyr	Gln	Gly	His	His	Thr	Pro
1				5					10					15	

Pro	Val	Gln	Lys	Gly	Leu	Arg	Tyr	Gly	Ile	Ile	Xaa	Phe	Xaa	Thr	Xaa
			20					25					30		

Xaa	Val	Phe	Phe	Phe	Xaa	Gly	Phe	Phe
		35					40	

<210> 6697

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6697

Trp	Arg	Asp	Val	Xaa	Arg	Glu	Ser	Thr	Tyr	Gln	Gly	His	His	Thr	Pro
1				5					10					15	

Pro	Val	Gln	Lys	Gly	Leu	Arg	Tyr	Gly	Ile	Ile	Leu	Phe	Ile	Thr	Ser
			20					25					30		

Xaa	Ile	Phe	Phe	Phe	Ala	Gly	Phe	Phe
		35					40	

<210> 6698

<211> 93

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

## 5936

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (90)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6698

Ala His His Ser Leu Ile Xaa Asn Asn Arg Asn Gln Ile Ile Gln Ala  
 1 5 10 15

Leu Leu Ile Thr Ile Leu Leu Gly Leu Tyr Phe Thr Leu Leu Gln Ala  
 20 25 30

Ser Xaa Tyr Phe Glu Ser Pro Phe Thr Ile Ser Asp Gly Ile Tyr Gly  
 35 40 45

Ser Thr Phe Phe Val Ala Thr Gly Phe His Gly Leu His Val Ile Ile  
 50 55 60

Gly Ser Thr Phe Leu Thr Ile Cys Phe Ile Arg Gln Leu Ile Phe His  
 65 70 75 80

Phe Thr Ser Lys His His Phe Gly Phe Xaa Thr Ala Ala  
 85 90

&lt;210&gt; 6699

&lt;211&gt; 41

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6699

Trp Arg Asp Val Thr Arg Glu Ser Thr Tyr Gln Gly His His Thr Pro  
 1 5 10 15

Pro Val Gln Lys Gly Leu Arg Tyr Gly Ile Ile Leu Phe Ile Thr Ser  
 20 25 30

Glu Val Phe Phe Phe Ala Gly Phe Phe  
 35 40

&lt;210&gt; 6700

&lt;211&gt; 39

&lt;212&gt; PRT

## 5937

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6700

Ala Gly Ile Leu Xaa Thr Ala Leu Ser Leu Leu Ile Arg Ala Glu Leu  
1 5 10 15

Gly Gln Pro Xaa Asn Leu Leu Xaa Asn Glu His Ile Tyr Asn Val Ile  
20 25 30

Val Thr Ala Met His Leu Leu  
35

<210> 6701

<211> 40

<212> PRT

<213> Homo sapiens

<400> 6701

Thr Ile Leu Pro Ala Ile Ile Leu Val Leu Ile Ala Leu Pro Ser Leu  
1 5 10 15

Arg Ile Leu Tyr Ile Thr Asp Glu Val Asn Asp Pro Ser Leu Thr Ile  
20 25 30

Lys Ser Ile Gly His Gln Trp Tyr  
35 40

<210> 6702

<211> 40

<212> PRT

<213> Homo sapiens

## 5938

&lt;400&gt; 6702

Thr Ile Leu Pro Ala Ile Ile Leu Val Leu Ile Ala Leu Pro Ser Leu  
1 5 10 15  
Arg Ile Leu Tyr Ile Thr Asp Glu Val Asn Asp Pro Ser Leu Thr Ile  
20 25 30  
Lys Ser Ile Gly His Gln Trp Tyr  
35 40

&lt;210&gt; 6703

&lt;211&gt; 64

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (60)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6703

Ala Val Pro Thr Leu Gly Leu Lys Thr Asp Ala Ile Pro Gly Arg Leu  
1 5 10 15  
Asn Gln Thr Thr Phe Thr Ala Thr Arg Pro Gly Val Tyr Tyr Gly Gln  
20 25 30  
Cys Ser Glu Ile Cys Gly Ala Asn His Ser Phe Met Pro Ile Val Leu  
35 40 45  
Glu Leu Ile Pro Leu Lys Ile Phe Glu Ile Gly Xaa Val Phe Thr Leu  
50 55 60

&lt;210&gt; 6704

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6704

Thr Tyr Glu Tyr Thr Asp Tyr Gly Gly Leu Ile Phe Asn Ser Tyr Ile  
1 5 10 15  
Leu Pro Pro Leu Phe Leu Glu Pro Gly Asp Leu Arg Leu Leu Asp Val  
20 25 30

5939

Asp Asn Arg Val Val Leu Pro Ile Glu Ala Pro Ile Arg Ile Ile Ile  
                   35                  40                  45

Thr Ser Gln Asp Val Leu His Ser  
           50                  55

&lt;210&gt; 6705

&lt;211&gt; 45

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6705

His Val Thr Leu Trp Phe Leu Cys Phe Ile Asn Tyr Leu Ile Tyr Gln  
       1                  5                  10                  15

Tyr Gly Thr Arg Phe Xaa Lys Lys Xaa Asp Ser Xaa Asp Pro Tyr Ile  
                   20                  25                  30

Tyr Thr Pro Phe Gly Thr Gly Pro Lys Thr Ala Leu Ala  
           35                  40                  45

&lt;210&gt; 6706

&lt;211&gt; 63

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5940

&lt;400&gt; 6706

His Leu Trp Xaa Leu Ile Glu Gly Gly Ala His Ile Tyr Val Cys Gly  
1 5 10 15

Asp Ala Arg Asn Met Ala Arg Asp Val Gln Asn Thr Phe Tyr Asp Ile  
20 25 30

Val Ala Glu Leu Gly Ala Met Glu His Ala Gln Ala Val Asp Tyr Ile  
35 40 45

Lys Lys Leu Met Thr Lys Gly Arg Tyr Ser Leu Asp Val Trp Ser  
50 55 60

&lt;210&gt; 6707

&lt;211&gt; 158

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (111)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (112)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (123)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 5941

<221> SITE  
 <222> (125)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (129)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (134)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (138)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (140)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (154)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 6707  
 Xaa Pro Pro Glu Leu His Asp Xaa Ala Lys Xaa Pro Tyr Thr Glu Ala  
   1                  5                  10                  15  
 Val Ile Tyr Glu Ile Gln Arg Phe Ser Asp Leu Leu Pro Met Gly Val  
                   20                  25                  30  
 Pro His Ile Val Thr Gln His Thr Ser Phe Arg Gly Tyr Ile Ile Pro  
                   35                  40                  45  
 Lys Asp Thr Glu Val Phe Leu Ile Leu Ser Thr Ala Leu His Asp Pro  
   50                  55                  60  
 His Tyr Phe Glu Lys Pro Asp Ala Phe Asn Pro Asp His Phe Leu Asp  
   65                  70                  75                  80  
 Ala Asn Gly Ala Leu Lys Lys Thr Glu Ala Phe Ile Pro Phe Ser Leu  
                   85                  90                  95  
 Gly Lys Arg Ile Cys Leu Gly Glu Gly Ile Ala Arg Ala Glu Xaa Xaa  
                   100                  105                  110

## 5942

Pro Leu Phe Thr Thr Ile Leu Gln Asn Phe Xaa Met Xaa Ser Pro Val  
 115 120 125

Xaa Pro Glu Asp Ile Xaa Leu Thr Pro Xaa Glu Xaa Gly Val Gly Gln  
 130 135 140

Lys Asn Pro Pro Thr Tyr Gln Asn Pro Xaa Ser Trp Pro Arg  
 145 150 155

<210> 6708

<211> 89

<212> PRT

<213> Homo sapiens

<400> 6708

Phe Ser Ala Pro Ser Arg Ile Ser Ala Trp Phe Gly Pro Pro Ala Ser  
 1 5 10 15

Thr Pro Ala Ser Thr Met Ser Ile Arg Val Thr Gln Lys Ser Tyr Lys  
 20 25 30

Val Ser Thr Ser Gly Pro Arg Ala Phe Ser Ser Arg Ser Tyr Thr Ser  
 35 40 45

Gly Pro Gly Ser Arg Ile Ser Ser Ser Ser Phe Ser Arg Val Gly Lys  
 50 55 60

Gln Gln Leu Ser Arg Trp Pro Gly Arg Ala Ala Met Val Gly Pro Ala  
 65 70 75 80

Ala Trp Glu Ala Ser Pro Glu Leu Arg  
 85

<210> 6709

<211> 138

<212> PRT

<213> Homo sapiens

<400> 6709

Arg Ser Trp Gly Ala Thr Gln Pro Gly Ser Gln Ala Pro Pro Arg Gln  
 1 5 10 15

Leu Ser Arg Phe Ser His Ser Phe Pro Thr Arg Leu Leu Ser Pro Met  
 20 25 30

Ala His Ala Thr Leu Ser Ala Ala Pro Ser Asn Pro Arg Leu Leu Arg  
 35 40 45



## 5943

Val Ala Leu Leu Leu Leu Leu Val Ala Ala Ser Arg Arg Ala Ala  
 50 55 60

Gly Ala Ser Val Val Thr Glu Leu Arg Cys Gln Cys Leu Gln Thr Leu  
 65 70 75 80

Gln Gly Ile His Leu Lys Asn Ile Gln Ser Val Asn Val Arg Ser Pro  
 85 90 95

Gly Pro His Cys Ala Gln Thr Glu Val Ile Ala Thr Leu Lys Asn Gly  
 100 105 110

Lys Lys Ala Cys Leu Asn Pro Ala Ser Pro Met Val Gln Lys Ile Ile  
 115 120 125

Glu Lys Ile Leu Asn Lys Gly Ser Thr Asn  
 130 135

&lt;210&gt; 6710

&lt;211&gt; 76

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (62)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (75)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6710

Gly Thr Phe Arg Asn Asp Asn Ser Ala Glu Met Cys Arg Lys Cys Ser  
 1 5 10 15

Thr Gly Cys Pro Arg Arg Met Val Lys Val Lys Asp Cys Thr Pro Trp  
 20 25 30

Ser Asp Ile Glu Cys Val His Lys Glu Ser Gly Asn Gly His Asn Ile  
 35 40 45

Trp Val Ile Phe Val Val Thr Leu Val Val Pro Leu Leu Xaa Val Ala  
 50 55 60

Val Leu Ile Val Trp Cys Cys Ile Gly Ser Xaa Cys  
 65 70 75

5944

&lt;210&gt; 6711

&lt;211&gt; 59

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6711

Phe Ile Pro Ile Leu Val Ser Asn Tyr Asn Pro Lys Glu Phe Glu Ser  
1 5 10 15

Cys Ile Gln Tyr Tyr Leu Glu Asn Asn Trp Leu Gln His Glu Lys Ala  
20 25 30

Pro Thr Glu Glu Gly Lys Lys Glu Leu Leu Phe Leu Ser Asn Ala Asn  
35 40 45

Pro Ser Leu Leu Glu Arg His Cys Ala Tyr Leu  
50 55

&lt;210&gt; 6712

&lt;211&gt; 104

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (29)

## 5945

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6712

Xaa	Arg	Pro	Arg	Ser	Gly	Xaa	Pro	Gly	Ser	Thr	His	Ala	Ser	Asp	Pro
1					5				10					15	

Pro	Xaa	Ile	Phe	Xaa	Lys	Pro	Ala	Lys	Thr	Ser	Lys	Xaa	Pro	Gly	Ser
		20						25						30	

Phe	Xaa	Glu	Glu	Leu	Leu	Xaa	Xaa	Thr	Glu	Thr	Val	Val	Thr	Glu	Tyr
		35						40						45	

## 5946

Leu Asn Ser Gly Asn Ala Asn Glu Ala Val Asn Gly Val Arg Glu Met  
 50 55 60

Arg Ala Pro Lys His Phe Leu Pro Glu Met Leu Ser Lys Val Ile Ile  
 65 70 75 80

Leu Ser Leu Asp Xaa Xaa Xaa Glu Asp Lys Xaa Lys Ala Ser Ser Leu  
 85 90 95

Ile Xaa Leu Leu Lys Gln Glu Gly  
 100

<210> 6713

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6713

Ala Leu Phe Asn Xaa Gly Ser Pro Xaa Leu His Glu Phe Arg Ser Xaa  
 1 5 10 15

Xaa Thr Leu Phe Ile Val Leu Val Asn Asn Asp Glu Gly Glu Trp Asn  
 20 25 30

5947

Gly Pro Pro Pro Xaa Cys Lys Arg Lys Asn Leu  
                   35                  40

&lt;210&gt; 6714

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6714

Met Cys Ser Leu Pro Phe Gln Ile Lys Ile Thr His Lys Asn Gln Met  
   1                  5                  10                  15

Pro Met Leu Met Gly Pro Pro Pro Arg Ser Thr Asn Phe Phe Gly Phe  
                   20                  25                  30

Leu Ser

&lt;210&gt; 6715

&lt;211&gt; 122

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (89)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (107)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (111)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (119)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6715

Gly Gly Asp Gly Thr Val Gly Trp Val Leu Gly Ala Leu Glu Glu Thr  
   1                  5                  10                  15

## 5948

Arg Tyr Arg Leu Ala Cys Pro Glu Pro Ser Val Ala Ile Leu Pro Leu  
20 25 30

Gly Thr Gly Asn Asp Leu Gly Arg Val Leu Arg Trp Gly Ala Gly Tyr  
35 40 45

Ser Gly Glu Asp Pro Phe Ser Val Leu Leu Ser Val Asp Glu Ala Asp  
50 55 60

Ala Val Leu Met Asp Arg Trp Thr Ile Leu Leu Asp Ala His Glu Ala  
65 70 75 80

Gly Ser Ala Glu Asn Asp Thr Ala Xaa Ala Glu Pro Pro Lys Ile Val  
85 90 95

Gln Met Ser Asn Tyr Leu Trp His Trp His Xaa Pro Gly Leu Xaa Leu  
100 105 110

Asp Phe Thr Lys His Arg Xaa Glu Glu Pro  
115 120

<210> 6716

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

## 5949

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (54)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (59)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (60)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (62)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (80)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6716

Xaa	Met	Ala	Glu	Glu	Gly	Xaa	Pro	Ala	Pro	Leu	Pro	Pro	Glu	Asp	Ala
1				5					10					15	

Pro	Asn	Ala	Ala	Ser	Leu	Ala	Pro	Thr	Pro	Xaa	Ser	Pro	Xaa	Leu	Glu
		20						25					30		

Pro	Phe	Asn	Leu	Thr	Ser	Glu	Pro	Ser	Asp	Xaa	Ala	Leu	Asp	Leu	Ser
		35						40					45		

Thr	Phe	Leu	Gln	Gln	Xaa	Pro	Asp	Ala	Phe	Xaa	Xaa	Gly	Xaa	Pro	Glu
		50				55						60			

Leu	Pro	Lys	Lys	Lys	Pro	Lys	Asn	Pro	Gln	Arg	Lys	His	Gln	Gly	Xaa
	65					70				75					80

Thr Arg Gly

&lt;210&gt; 6717

&lt;211&gt; 69

## 5950

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6717

Gly Cys Thr Pro Leu Phe Ile Pro Lys Leu Ala Gly Ser His Cys Ser

1

5

10

15

Gly Ala Lys Gly Gly Lys Lys Ser Asp Gln Ser Asn Cys Ser Leu Glu

20

25

30

Pro Leu Leu Gln Gln Leu Ser Thr Ser Tyr Lys Thr Met Pro Asp Val

35

40

45

Cys Gln Ala Ser Asn Leu Leu Pro Ala Leu Arg Ser Leu Asn Cys Cys

50

55

60

Leu Pro Ser Ser Leu

65

&lt;210&gt; 6718

&lt;211&gt; 106

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (37)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (58)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids



## 5951

<220>  
<221> SITE  
<222> (66)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (73)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (75)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (76)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (91)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (96)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (106)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6718  
Gln Xaa Lys Asp Gly Asp Glu Phe Asn Asn Ser Ile Xaa Gln Leu Phe  
1 5 10 15  
Leu Ala Phe Asn Met Leu Met Asp Arg Pro Leu Glu Glu Ala Val Lys  
20 25 30  
Ile Xaa Gly Ala Xaa Leu Lys Tyr Leu Pro Ser Ile Ile Asn Asp Val  
35 40 45  
Lys Leu Val Phe Asp Pro Val Glu Leu Xaa Val Leu Phe Cys Lys Phe  
50 55 60  
Ile Xaa Ser Ile Pro Asp Asn Gln Xaa Val Xaa Xaa Lys Leu Asn Cys  
65 70 75 80

## 5952

Met Thr Lys Ile Val Glu Ser Thr Leu Phe Xaa Gln Ser Glu Cys Xaa  
                     85                    90                    95

Glu Val Leu Leu Pro Leu Leu Thr Asp Xaa  
                     100                    105

<210> 6719

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6719

Val Ala Val Lys Met Ala Leu Val Ala Ser Val Arg Val Pro Ala Arg  
   1                    5                    10                    15

Val Leu Leu Arg Ala Gly Ala Arg Leu Pro Gly Ala Ala Leu Gly Arg  
                     20                    25                    30

Thr Glu Arg Ala Ala Gly Gly Gly Asp Gly Ala Arg Arg Phe Gly Ser  
                     35                    40                    45

Gln Arg Val Leu Val Glu Pro Asp Ala Gly Ala Gly Val Ala Val Met  
                     50                    55                    60

Lys Phe Lys Asn Pro Pro Val Asn Ser Leu Ser Leu Glu Phe Leu Thr  
   65                    70                    75                    80

Glu Leu Val Ile Ser Leu Arg Ser Trp Arg Met Thr Arg Ala Ser Ala  
                     85                    90                    95

Val Xaa Phe

<210> 6720

<211> 134

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (126)

<223> Xaa equals any of the naturally occurring L-amino acids

## 5953

&lt;400&gt; 6720

```

Thr Pro Gln Gln Lys Tyr Gln Arg Leu Leu His Glu Val Gln Glu Leu
  1              5              10              15

Thr Thr Glu Val Glu Lys Ile Lys Thr Thr Val Lys Glu Ser Ala Thr
      20              25              30

Glu Glu Lys Leu Thr Pro Val Leu Leu Ala Lys Gln Leu Ala Ala Leu
      35              40              45

Lys Gln Gln Leu Val Ala Ser His Leu Glu Lys Leu Leu Gly Pro Asp
      50              55              60

Ala Ala Ile Asn Leu Thr Asp Pro Asp Gly Ala Leu Ala Lys Arg Leu
      65              70              75              80

Leu Leu Gln Leu Glu Ala Thr Lys Asn Ser Lys Gly Gly Ser Gly Gly
      85              90              95

Lys Thr Thr Gly Thr Pro Pro Asp Ser Ser Leu Val Thr Tyr Glu Leu
      100             105             110

His Ser Arg Pro Glu Gln Asp Lys Val Leu Ser Lys Leu Xaa Lys Val
      115             120             125

Gln Asn Leu Lys Ser Ala
      130

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&lt;210&gt; 6721

&lt;211&gt; 69

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5954

&lt;400&gt; 6721

Xaa Asn Lys Xaa Trp Cys Ser Thr Ala Val Ala Xaa Ala Leu Glu Leu  
 1                      5                      10                      15

Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Gly Lys Thr Ser Leu  
                     20                      25                      30

Asn Leu Ser Leu Asn Leu Ile Phe Glu Leu Pro Ser Leu Phe Met Val  
                     35                      40                      45

Glu Gly Lys Gln Phe Arg Ser Leu Asp Tyr Glu Phe Cys Glu Thr His  
                     50                      55                      60

Asp Ser Thr Ile Thr  
 65

&lt;210&gt; 6722

&lt;211&gt; 109

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (90)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (93)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (94)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (99)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (103)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6722

Leu Leu Pro Ser Glu Ser Pro Met Ala His Trp Trp Trp Trp Thr Ala  
 1                      5                      10                      15

## 5955

Cys Gln Ala Cys Asp Ser Ala Ala Ala Gly His Cys Arg Ala His Gln  
                   20                                  25                                  30  
 Ala Cys Ala Asp Asp Glu Gln Asp Val Asn Val Ile Ile Ser Thr Tyr  
                   35                                  40                                  45  
 Gly Glu Gly Glu Ser Gly Pro Met Gly Asn Ile Met Ile Asp Pro Val  
                   50                                  55                                  60  
 Leu Gly Thr Val Gly Phe Gly Ser Gly Leu His Gly Trp Ala Phe Thr  
                   65                                  70                                  75                                  80  
 Leu Lys Gln Phe Ala Glu Met Tyr Val Xaa Lys Phe Xaa Xaa Lys Gly  
                                   85                                  90                                  95  
 Glu Gly Xaa Leu Gly Pro Xaa Glu Arg Ala Lys Lys Val  
                   100                                  105

&lt;210&gt; 6723

&lt;211&gt; 50

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5956

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6723

Lys	Cys	Thr	Ile	Thr	Gly	Leu	Thr	Xaa	Trp	Asp	Pro	Xaa	Cys	Glu	Ala
1				5				10						15	

Xaa	Asp	Arg	Gly	Asp	Lys	Phe	Val	Leu	Arg	Ser	Xaa	Tyr	Ser	Ser	Cys
			20					25					30		

Gly	Met	Xaa	Val	Ser	Xaa	Ser	Met	Ile	Ser	Asn	Glu	Xaa	Xaa	Val	Asn
			35					40					45		

Ile	Leu
	50

&lt;210&gt; 6724

&lt;211&gt; 106

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6724

Ala	Xaa	Ala	Trp	Ala	Pro	Pro	Pro	Leu	Ser	Pro	Trp	Ser	Ser	Cys	Lys
1				5				10						15	

Ser	Ala	Arg	Met	Ser	Gln	Ala	Glu	Phe	Glu	Lys	Ala	Ala	Glu	Glu	Val
			20					25					30		

Arg	His	Leu	Lys	Thr	Lys	Pro	Ser	Asp	Glu	Glu	Met	Leu	Phe	Ile	Tyr
			35					40					45		

Gly	His	Tyr	Lys	Gln	Ala	Thr	Val	Gly	Asp	Ile	Asn	Thr	Glu	Arg	Pro
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

## 5957

50		55		60
Gly Met Leu Asp Phe Thr Gly Lys Ala Lys Trp Asp Ala Trp Asn Glu				
65		70		75
				80
Leu Lys Gly Thr Ser Lys Glu Asp Ala Met Lys Ala Tyr Ile Asn Lys				
	85		90	95
Val Glu Glu Leu Lys Lys Lys Tyr Gly Ile				
	100		105	

&lt;210&gt; 6725

&lt;211&gt; 120

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (64)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (65)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (71)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (82)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (103)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (104)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (110)

## 5958

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (114)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6725

Ala Trp Cys Arg Trp Leu Val Ser Ala Thr Cys Val Gly Thr Ala Asp  
1 5 10 15

Arg Lys Met Ser Ser Gly Asn Ala Lys Ile Gly His Pro Ala Pro Asn  
20 25 30

Phe Lys Ala Thr Ala Val Met Pro Asp Gly Gln Phe Lys Asp Ile Ser  
35 40 45

Leu Ser Asp Tyr Lys Gly Lys Tyr Val Val Phe Phe Phe Tyr Pro Xaa  
50 55 60

Xaa Phe Thr Phe Val Cys Xaa Thr Glu Ile Ile Ala Phe Ser Asp Arg  
65 70 75 80

Ala Xaa Glu Phe Lys Lys Leu Asn Cys Gln Val Ile Gly Ala Ser Val  
85 90 95

Asp Ser His Phe Cys His Xaa Xaa Trp Val Asn Thr Pro Xaa Lys Gln  
100 105 110

Xaa Xaa Leu Gly Pro Met Asn Ile  
115 120

<210> 6726

<211> 193

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE



## 5959

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (189)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6726

Xaa	Ser	Xaa	Ala	Pro	Ala	Val	Pro	Val	Arg	Asn	Ser	Arg	Val	Asp	Pro
1				5					10					15	

Arg	Val	Arg	Thr	Xaa	Xaa	Val	Val	Asn	Cys	Phe	Val	Asn	Asn	Asn	Arg
			20					25					30		

Gln	Cys	Gln	Cys	Thr	Ser	Val	Gly	Ala	Gln	Asn	Thr	Val	Ile	Cys	Ser
		35					40					45			

Lys	Leu	Ala	Ala	Lys	Cys	Leu	Val	Met	Lys	Ala	Glu	Met	Asn	Gly	Ser
	50					55					60				

Lys	Leu	Gly	Arg	Arg	Ala	Lys	Pro	Glu	Gly	Ala	Leu	Gln	Asn	Asn	Asp
65					70					75					80

Gly	Leu	Tyr	Asp	Pro	Asp	Cys	Asp	Glu	Ser	Gly	Leu	Phe	Lys	Ala	Lys
				85					90					95	

Gln	Cys	Asn	Gly	Thr	Ser	Met	Cys	Trp	Cys	Val	Asn	Thr	Ala	Gly	Val
			100					105					110		

Arg	Arg	Thr	Asp	Lys	Asp	Thr	Glu	Ile	Thr	Cys	Ser	Glu	Arg	Val	Arg
		115					120					125			

Thr	Tyr	Trp	Ile	Ile	Ile	Glu	Leu	Lys	His	Lys	Ala	Arg	Glu	Lys	Pro
	130					135					140				

Tyr	Asp	Ser	Lys	Ser	Leu	Arg	Thr	Ala	Leu	Gln	Lys	Glu	Ile	Thr	Thr
145					150					155					160

Arg	Tyr	Gln	Leu	Asp	Pro	Lys	Phe	Ile	Thr	Ser	Ile	Leu	Tyr	Glu	Asn
			165						170					175	

## 5960

Asn Val Ile Thr Ile Asp Leu Val Gln Asn Ser Ser Xaa Lys Asn Ser  
 180 185 190

Glu

<210> 6727

<211> 153

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6727

His Val Val Glu Gly Thr Pro Ala Gly Thr Gly Ser Gly Ile Pro Gly  
 1 5 10 15

Tyr Leu Ile Tyr Leu Lys Phe Lys Ala Thr Tyr Asp Gly Asn His Asp  
 20 25 30

Thr Phe Arg Val Glu Phe Leu Val Val Pro Val Gly Gly Leu Ser Phe  
 35 40 45

Leu Val Asn His Asp Phe Ser Pro Leu Glu Ile Leu Trp Thr Phe Ser  
 50 55 60

Ile Tyr Leu Glu Ser Val Ala Ile Leu Pro Gln Leu Phe Met Ile Ser  
 65 70 75 80

Lys Thr Gly Glu Ala Glu Thr Ile Thr Thr His Tyr Leu Phe Phe Leu  
 85 90 95

Gly Leu Tyr Arg Ala Leu Tyr Leu Val Asn Trp Xaa Trp Arg Phe Tyr  
 100 105 110

Phe Glu Gly Phe Phe Asp Leu Ile Ala Val Val Ala Gly Val Val Gln  
 115 120 125

Thr Ile Leu Tyr Cys Asp Phe Phe Tyr Leu Tyr Ile Gln Lys Tyr Ser  
 130 135 140

## 5961

Arg Glu Arg Ser Ser Val Xaa Gln His  
145 150

<210> 6728

<211> 135

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

## 5962

<220>  
<221> SITE  
<222> (72)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (74)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (75)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (83)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (96)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (99)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (116)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (120)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (122)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6728  
Pro Ser Cys Gly Ala Gly His Thr Ala Gly Gly Gly Arg Gly Arg Xaa  
1 5 10 15  
Pro Xaa Ser Trp Pro Pro Pro Val Glu Xaa Val Thr Leu Xaa Asp Leu  
20 25 30

## 5963

Ser Gln Leu Ile Ile Arg Asn Cys Xaa Ser Phe Asp Ile His Xaa Ile  
           35                    40                    45  
 His Val Cys Leu His Leu Xaa Val Leu Leu Gly Phe Pro Ser Asp Gly  
           50                    55                    60  
 Pro Leu Val Cys Ala Leu Xaa Xaa Glu Xaa Xaa Leu Arg Leu Pro Pro  
           65                    70                    75                    80  
 Lys Ala Xaa Ser Pro Phe Ala Thr Pro Ser Pro Lys Ser Asn Gly Xaa  
                     85                    90                    95  
 Arg Thr Xaa Ser Pro Arg Asp Gly Ala Pro Trp Pro Ile Thr Gly Pro  
                     100                    105                    110  
 Gly Pro Val Xaa Gly Thr Pro Xaa Phe Xaa Glu Asn Pro Cys Pro Leu  
           115                    120                    125  
 Pro Gly Trp Phe Gln Glu Thr  
           130                    135

&lt;210&gt; 6729

&lt;211&gt; 157

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (143)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (146)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (149)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (150)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 5964

&lt;222&gt; (151)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6729

Thr Gln Pro Thr Val Cys Thr Asp Ala Pro Ser Leu Leu Pro Leu Ser

1 5 10 15

Arg Leu His Leu Arg Gly Ser Trp Asp Arg Arg Ser Val Ala Asn Met

20 25 30

Gln Leu Phe Val Arg Ala Gln Glu Leu His Thr Phe Glu Val Thr Gly

35 40 45

Gln Glu Thr Val Ala Gln Ile Lys Ala His Val Ala Ser Leu Glu Gly

50 55 60

Ile Ala Pro Glu Asp Gln Val Val Leu Leu Ala Gly Ala Pro Leu Glu

65 70 75 80

Asp Glu Ala Thr Leu Gly Gln Cys Gly Val Glu Ala Leu Thr Thr Leu

85 90 95

Glu Val Ala Gly Arg Met Leu Gly Gly Lys Val His Gly Ser Leu Ala

100 105 110

Arg Ala Gly Lys Val Arg Gly Gln Thr Pro Lys Val Ala Lys Gln Glu

115 120 125

Lys Lys Lys Lys Lys Thr Gly Arg Ala Lys Arg Arg Met Gln Xaa Asn

130 135 140

Arg Xaa Phe Val Xaa Xaa Xaa Pro Pro Leu Ala Arg Arg

145 150 155

&lt;210&gt; 6730

&lt;211&gt; 164

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5965

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (71)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (73)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (97)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (128)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6730

Val	Xaa	Asp	Gln	Ile	Thr	Ala	Val	Arg	Lys	Phe	Ile	Xaa	Met	Gly	Phe
1				5				10					15		

Ile	Asp	Glu	Lys	Arg	Ile	Ala	Ile	Trp	Gly	Trp	Ser	Tyr	Gly	Gly	Tyr
			20					25					30		

Val	Ser	Ser	Leu	Ala	Leu	Ala	Ser	Gly	Thr	Gly	Leu	Phe	Lys	Cys	Gly
			35				40					45			

Ile	Ala	Val	Ala	Pro	Val	Ser	Ser	Trp	Glu	Tyr	Tyr	Ala	Ser	Val	Tyr
	50					55					60				

Thr	Glu	Arg	Phe	Met	Gly	Xaa	Pro	Xaa	Lys	Asp	Asp	Asn	Leu	Glu	His
65					70				75					80	

Tyr	Lys	Asn	Ser	Thr	Val	Met	Ala	Arg	Ala	Glu	Tyr	Phe	Arg	Asn	Val
				85				90						95	

Xaa	Tyr	Leu	Leu	Ile	His	Gly	Thr	Ala	Asp	Asp	Asn	Val	His	Phe	Gln
		100						105				110			

Asn	Ser	Ala	Gln	Ile	Ala	Lys	Ala	Leu	Val	Asn	Ala	Gln	Val	Asp	Xaa
	115					120						125			

Gln	Ala	Met	Trp	Tyr	Ser	Asp	Gln	Asn	His	Gly	Leu	Ser	Gly	Leu	Ser
	130					135					140				

Thr	Asn	His	Leu	Tyr	Thr	His	Met	Thr	His	Phe	Leu	Lys	Gln	Cys	Phe
145					150					155					160

## 5966

Ser Leu Ser Asp

&lt;210&gt; 6731

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (25)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6731

Gly	Xaa	Gly	Arg	Xaa	Gln	Cys	Xaa	Asn	Thr	Leu	Gln	Thr	Asn	Ala	Gly
1				5					10					15	

Tyr	Leu	Glu	Gln	Val	Lys	Arg	Xaa	Xaa	Xaa		
			20					25			

&lt;210&gt; 6732

&lt;211&gt; 61



## 5967

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (23)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (50)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6732

Ser Ala Ile Ala Ser Xaa Arg Tyr Lys Arg Phe Xaa Ile Arg Xaa Arg

1

5

10

15

Ile Lys Met Gln Xaa Asp Xaa Val Arg Ser Val Ile Gln Asn Leu Thr

20

25

30

Glu Glu Gln Ser Met Val Leu Cys Ala Ala Xaa Xaa Lys Ala Gly Ser

## 5968

35 40 45

Met Xaa Leu His Gln Asp Asn Ser His Thr Pro Val Ser  
50 55 60

<210> 6733  
<211> 38  
<212> PRT  
<213> Homo sapiens

<400> 6733  
Ala Phe Ile Ala Lys Ser Phe Tyr Asp Leu Ser Ala Ile Ser Leu Asp  
1 5 10 15

Gly Glu Lys Val Asp Phe Asn Thr Ser Arg Gly Arg Ala Val Leu Ile  
20 25 30

Glu Asn Val Ala Ser Leu  
35

<210> 6734  
<211> 95  
<212> PRT  
<213> Homo sapiens

<220>  
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<220>  
<221> SITE

## 5969

&lt;222&gt; (50)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (82)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (88)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (92)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6734

Ala	Asp	Glu	Pro	Ile	Pro	Xaa	Lys	Glu	Leu	Glu	Arg	Gly	Val	Ala	Gly
1				5					10					15	

Ala	His	Gly	Leu	Leu	Cys	Leu	Leu	Ser	Asp	His	Val	Asp	Lys	Arg	Ile
			20					25					30		

Leu	Asp	Ala	Ala	Xaa	Ala	Asn	Leu	Lys	Val	Ile	Ser	Thr	Met	Xaa	Xaa
		35					40					45			

Gly	Xaa	Asp	His	Leu	Ala	Leu	Asp	Glu	Ile	Lys	Lys	Arg	Gly	Ile	Arg
	50					55					60				

Val	Gly	Tyr	Thr	Pro	Asp	Val	Leu	Thr	Asp	Thr	Thr	Val	Glu	Leu	Ala
65					70					75					80

Val	Xaa	Leu	Leu	Leu	Thr	Thr	Xaa	Arg	Arg	Leu	Xaa	Glu	Ala	Ile	
				85					90					95	

&lt;210&gt; 6735

&lt;211&gt; 32

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (11)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 5970

&lt;222&gt; (16)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (22)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6735

Ala	Ala	Cys	Leu	Ala	Asp	Leu	Ala	Asp	Arg	Xaa	Tyr	Lys	Gln	Ala	Xaa
1				5					10					15	

Lys	Cys	Leu	Leu	Xaa	Xaa	Ser	Phe	Asp	His	Cys	Asp	Phe	Pro	Glu	Leu
			20					25					30		

&lt;210&gt; 6736

&lt;211&gt; 97

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (50)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (51)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (59)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 5971

<221> SITE  
<222> (61)  
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<220>  
<221> SITE

## 5972

&lt;222&gt; (95)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6736

Cys Pro Trp Pro Leu Lys Leu Arg Cys Gln Cys Leu Gln Thr Leu Gln

1

5

10

15

Gly Ile His Pro Lys Asn Ile Gln Ser Val Asn Xaa Lys Ser Pro Gly

20

25

30

Pro His Cys Ala Gln Thr Glu Val Ile Ala Thr Leu Lys Asn Gly Arg

35

40

45

Lys Xaa Xaa Leu Gln Ser Cys Met Pro His Xaa Leu Xaa Xaa Leu Ser

50

55

60

Xaa Lys Xaa Val Xaa Gln Trp Gln Ile Gln Leu Xaa Gln Lys Gly Gly

65

70

75

80

Arg Lys Val Xaa Trp Trp Val Xaa Ala Xaa Arg Glu Xaa Leu Xaa Leu

85

90

95

Phe

&lt;210&gt; 6737

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (27)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 5973

&lt;400&gt; 6737

Ser Pro Gly Pro His Xaa Ala Gln Thr Gly Val Ile Ala Thr Leu Lys  
 1 5 10 15

Xaa Gly Arg Lys Ala Cys Leu Asn Pro Ala Xaa Pro Ile Val Met Lys  
 20 25 30

Xaa Ile

&lt;210&gt; 6738

&lt;211&gt; 18

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6738

Arg Xaa Val Ala Glu Asp Xaa His Leu Trp Asn Asp Ser Gln Pro Leu  
 1 5 10 15

Lys Leu

&lt;210&gt; 6739

&lt;211&gt; 66

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6739

Arg Gly Cys His Ser Asp Phe Leu Pro Glu Leu Leu Leu Ala Pro Ser  
 1 5 10 15

Ser Lys Lys Gly Lys Ala Arg Leu Ser Pro Arg Ser Val Gly Val Ile  
 20 25 30

Ser Pro Tyr Arg Lys Gln Val Glu Lys Ile Arg Tyr Cys Ile Thr Lys  
 35 40 45

## 5974

Leu Asp Arg Glu Leu Arg Gly Leu Asp Asp Ile Lys Asp Leu Lys Val  
 50 55 60

Val Gln  
 65

<210> 6740

<211> 91

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6740

Arg His Glu Glu Phe Ala Arg Tyr Thr Thr Pro Glu Asp Ala Thr Pro  
 1 5 10 15

Glu Pro Gly Glu Asp Pro Arg Val Thr Arg Ala Lys Tyr Phe Ile Arg  
 20 25 30

Asp Glu Phe Leu Arg Ile Ser Thr Ala Ser Gly Asp Gly Arg His Tyr  
 35 40 45

Cys Tyr Pro His Phe Thr Cys Ala Val Asp Thr Glu Asn Ile Arg Arg  
 50 55 60

Val Phe Asn Asp Cys Arg Asp Ile Ile Gln Arg Met His Leu Arg Gln  
 65 70 75 80

Tyr Glu Leu Leu Xaa Glu Gly Asn Pro Gln Ile  
 85 90

<210> 6741

<211> 23

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>



## 5975

<221> SITE  
<222> (21)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6741  
Asp Leu Tyr Lys Lys Xaa Gly Lys Leu Glu Phe Leu Gly Leu Asp Asn  
1 5 10 15  
Ala Gly Gln Asn Xaa Xaa Xaa  
20

<210> 6742  
<211> 36  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (33)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (35)

## 5976

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6742

Ala Gln Gln Gly Ala Pro Cys Pro Ser Arg Cys Gly Glu Xaa Pro Ala  
1 5 10 15

Cys His Trp Leu Pro Pro Asp Leu Thr Glu Pro Pro Xaa Ala Gln Leu  
20 25 30

Xaa Xaa Xaa Phe  
35

<210> 6743

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6743

Thr Arg Pro Asp Lys Xaa Val Lys Asp Leu Val Ile Leu Leu Tyr Glu  
1 5 10 15

Thr Ala Leu Leu Ser Ser Gly Phe Ser Leu Glu Asp Xaa Gln Thr His  
20 25 30

Ala Asn Arg Ile Tyr Arg Met Ile Lys Leu Gly Leu Gly Ile Asp Glu  
35 40 45

Asp Asp Pro Thr Ala Asp Asp Thr Ser Ala Ala Val Thr Glu Glu Met  
50 55 60

5977

Pro Pro Leu Glu Gly Asp Asp Xaa Thr Ser Arg Met Glu Xaa Val Asp  
 65 70 75 80

<210> 6744

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6744

Gly Xaa Ala Ser Pro Leu Gly Pro Ala Ala Leu Arg Asp Ser Glu Glu  
 1 5 10 15

Lys Leu Ala Pro Gly Gly Arg Gly Ser Val Asn Met Gly Lys Gly Asp  
 20 25 30

Pro Asn Lys Pro Arg Gly Lys Met Ser Ser Tyr Ala Phe Phe Val Gln  
 35 40 45

Thr Cys Arg Glu Arg Ala Gln Glu Arg Asn Thr Arg Thr Leu Pro Ser  
 50 55 60

## 5978

Ile Ser Xaa Glu Phe Ser Xaa Xaa Phe Phe Gly Lys Met Glu Lys Pro  
65 70 75 80

Phe Xaa Pro

<210> 6745

<211> 150

<212> PRT

<213> Homo sapiens

<220>

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<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

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<220>

<221> SITE

<222> (111)

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<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

## 5979

&lt;222&gt; (145)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6745

Leu Val Ala Ala Leu Ala Pro Met Ser Leu Pro Asn Ser Ser Cys Leu  
 1 5 10 15

Leu Glu Asp Lys Met Cys Glu Gly Asn Lys Thr Thr Met Ala Ser Pro  
 20 25 30

Gln Leu Met Pro Leu Val Val Val Leu Ser Thr Ile Cys Leu Val Thr  
 35 40 45

Val Gly Leu Asn Leu Leu Val Leu Tyr Ala Val Arg Ser Glu Arg Lys  
 50 55 60

Leu His Thr Val Gly Asn Leu Tyr Ile Val Ser Xaa Ser Val Ala Asp  
 65 70 75 80

Leu Ile Val Gly Ala Val Val Met Pro Met Asn Ile Leu Tyr Leu Leu  
 85 90 95

Met Ser Lys Trp Xaa Xaa Gly Arg Pro Xaa Cys Leu Phe Trp Xaa Ser  
 100 105 110

Met Asp Tyr Val Ala Ser Thr Ala Ser Ile Phe Xaa Val Phe Ile Leu  
 115 120 125

Cys Ile Asp Arg Tyr Arg Ser Val His Asn Pro Ser Gly Thr Leu Xaa  
 130 135 140

Xaa Val Pro Lys Pro Glu  
 145 150

&lt;210&gt; 6746

&lt;211&gt; 30

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6746

Val Leu Glu Leu Ala Gly Asn Ala Ser Lys Asp Leu Lys Val Lys Arg  
 1 5 10 15

Ile Thr Pro Arg His Leu Gln Leu Ala Ile Arg Gly Asp Glu  
 20 25 30

&lt;210&gt; 6747

## 5980

<211> 128  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (118)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (121)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (123)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (126)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6747  
 Ala Cys Arg Glu Glu His Lys Lys Lys His Pro Asp Ala Ser Val Asn  
   1                  5                  10                  15  
 Phe Ser Glu Phe Ser Lys Lys Cys Ser Glu Arg Trp Lys Thr Met Ser  
                   20                  25                  30  
 Ala Lys Glu Lys Gly Lys Phe Glu Asp Met Ala Lys Ala Asp Lys Ala  
           35                  40                  45  
 Arg Tyr Glu Arg Glu Met Lys Thr Tyr Ile Pro Pro Lys Gly Glu Thr  
       50                  55                  60  
 Lys Lys Lys Phe Lys Asp Pro Asn Ala Pro Lys Arg Pro Pro Ser Ala  
   65                  70                  75                  80  
 Phe Phe Leu Phe Cys Ser Glu Tyr Arg Pro Lys Ile Lys Gly Glu His  
                   85                  90                  95  
 Pro Gly Leu Ser Ile Gly Asp Val Ala Lys Lys Leu Gly Glu Met Trp  
           100                  105                  110  
 Asn Asn Thr Ala Ala Xaa Asp Lys Xaa Leu Xaa Lys Lys Xaa Ala Ala  
       115                  120                  125

## 5981

<210> 6748  
<211> 60  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6748  
Gly Thr Arg Xaa Glu Leu Ile Arg Pro Glu Arg Asn Thr Leu Val Val  
1 5 10 15  
Ser Phe Val Asp Leu Glu Gln Phe Asn Gln Gln Leu Ser Thr Thr Ile  
20 25 30  
Gln Glu Glu Phe Tyr Arg Val Tyr Pro Tyr Leu Cys Arg Ala Leu Lys  
35 40 45  
Thr Phe Val Lys Asp Ser Gly Arg Arg Thr Tyr Lys  
50 55 60

<210> 6749  
<211> 105  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (12)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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<222> (18)

## 5982

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6749

Xaa	Leu	Asn	Arg	Xaa	Ser	Ser	Cys	Ser	Ser	Cys	Xaa	Met	Pro	Cys	Ser
1				5				10					15		

Ile	Xaa	Glu	Arg	Gln	Xaa	Ser	Ser	Gln	Pro	Ala	Leu	Ser	Leu	Ala	Leu
		20						25					30		

Ser	Xaa	Xaa	Xaa	Arg	Gly	Trp	Tyr	Ile	Ser	Ala	Ser	Ala	Xaa	Gly	Asp
		35				40						45			

Trp	Gly	Gly	Trp	Leu	Asn	Ala	Arg	Met	Leu	Gln	Xaa	Cys	Ser	Val	Lys
	50					55					60				

Gly	Leu	Ser	Leu	Asn	Gln	Val	Met	Val	Asp	Asp	Ala	Gly	Val	Pro	Leu
65					70					75					80

Met	Gly	Ser	Tyr	Ile	Gly	Val	Met	Val	Leu	Leu	Tyr	Lys	Pro	Gly	Leu
				85						90					95



## 5983

Thr Asp Glu Pro Glu Ala Val Gly Glu  
                   100                  105

<210> 6750

<211> 121

<212> PRT

<213> Homo sapiens

<400> 6750

Arg Glu Gln Lys Leu Glu Leu His Arg Gly Gly Gly Arg Ser Arg Thr  
   1                  5                  10                  15

Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Ser Arg Tyr Asn Gln  
                   20                  25                  30

Glu Thr Pro Met Glu Ile Cys Leu Asn Gly Thr Pro Ala Leu Ala Tyr  
                   35                  40                  45

Leu Ala Ser Ala Pro Pro Pro Leu Cys Pro Ser Gly Arg Thr Pro Asp  
                   50                  55                  60

Leu Lys Ala Leu Leu Asn Val Val Asp Asn Ala Arg Ser Phe Ile Tyr  
   65                  70                  75                  80

Val Ala Val Met Asn Tyr Leu Pro Thr Leu Glu Phe Ser His Leu Arg  
                   85                  90                  95

Ala Trp Arg Gln Gly Ala Pro Ala His Gln Leu Leu Gly Thr Leu Gly  
                   100                  105                  110

Gly His Pro Cys Gly Pro Ser Cys Ser  
                   115                  120

<210> 6751

<211> 50

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

5984

&lt;400&gt; 6751

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Phe Ser Leu Phe Pro Leu Ala Lys Ser Phe Asp Asp Gly Asp Tyr Phe
 1             5             10             15

Pro Val Trp Gly Thr Cys Leu Gly Phe Glu Glu Leu Leu Met Leu Xaa
          20             25             30

Ser Gly Glu Cys Leu Leu Thr Ala Thr Gly Xaa Cys Leu Thr Trp Gln
          35             40             45

Cys Arg
 50

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&lt;210&gt; 6752

&lt;211&gt; 165

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6752

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Gly Ala Gly Gly Gly Phe Gly Ser Pro Met Asp Ile Phe Asp Met Phe
 1             5             10             15

Phe Gly Gly Gly Gly Arg Met Gln Arg Glu Arg Arg Gly Lys Asn Val
          20             25             30

Val His Gln Leu Ser Val Thr Leu Glu Asp Leu Tyr Asn Gly Ala Thr
          35             40             45

Arg Lys Leu Ala Leu Gln Lys Asn Val Ile Cys Asp Lys Cys Glu Gly
          50             55             60

Arg Gly Gly Lys Lys Gly Ala Val Glu Cys Cys Pro Asn Cys Arg Gly
          65             70             75             80

Thr Gly Met Gln Ile Arg Ile His Gln Ile Gly Pro Gly Met Val Gln
          85             90             95

Gln Ile Gln Ser Val Cys Met Glu Cys Gln Gly His Gly Glu Arg Ile
          100             105             110

Ser Pro Lys Asp Arg Cys Lys Ser Cys Asn Gly Arg Lys Ile Val Arg
          115             120             125

Glu Lys Lys Ile Leu Glu Val His Ile Asp Lys Gly Met Lys Asp Gly
          130             135             140

Gln Lys Ile Thr Phe His Gly Glu Gly Asp Gln Glu Pro Gly Leu Glu
          145             150             155             160

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5985

Pro Gly Asp Ile Ile  
165

<210> 6753

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

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<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

5986

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (57)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6753

Xaa	Pro	Thr	Xaa	Pro	Leu	Ser	His	Met	Asn	Ile	Xaa	Gln	Xaa	Phe	Glu
1				5					10					15	

Phe	His	Arg	Met	Ile	Trp	Ala	Asp	Leu	Ser	Cys	Leu	Val	Tyr	Arg	Ala
			20					25					30		

Asp	Thr	Gln	Xaa	Tyr	Gln	Pro	Leu	Xaa	Thr	Lys	Xaa	Gly	Xaa	Lys	Glu
		35					40					45			

Lys	Phe	Tyr	Val	Leu	Leu	Arg	Gly	Xaa
	50					55		

&lt;210&gt; 6754

&lt;211&gt; 28

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6754

Pro	Cys	Lys	Gly	Ser	Ile	Ile	Thr	Cys	Ser	Leu	Ser	Arg	Asp	Leu	Tyr
1				5				10						15	

Glu	Trp	Leu	His	Glu	Gly	Ser	Ala	Val	Ser	Tyr	Phe
		20					25				

&lt;210&gt; 6755

&lt;211&gt; 127

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (125)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (126)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6755

Asn	Ser	Gly	Arg	Gly	Asp	Leu	Leu	Tyr	Gly	Cys	Tyr	Thr	Arg	Pro	Gln
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

## 5987

1	5	10	15
Ile Asn Thr Glu Ile Val Gln Asn Val Thr Gly Pro Gly Gln Arg Thr	20	25	30
Asn Met Gly Ile Leu Phe Met Ser Lys Val Gly Leu Arg Gly Asp Arg	35	40	45
Arg Ser Glu Gly Asp Glu Val Leu Asp Pro Leu Arg Gln Ala Leu Asp	50	55	60
Ser Ser Met Gln Ser His Asn Leu Tyr Gln His Pro Gln Arg Leu Ala	65	70	75
Phe His Val Ser Ala Pro Val Ala Ser Thr Val Gln Gln Ala Ser Gly	85	90	95
Leu Leu Gly Pro Leu Pro His Leu Ser Ser Phe Ala Leu Gln Pro Ala	100	105	110
His Ser Leu Leu Pro Pro Leu Gly Ser His Gly Ala Xaa Xaa Ser	115	120	125

&lt;210&gt; 6756

&lt;211&gt; 61

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (59)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6756

Ser Phe Ala Ser Leu Gln Asn Val Gly Tyr Leu Ala Gly Asp Ala Lys	1	5	10	15
Ile Leu Asn Asn Ile Asn Phe Ser Leu Arg Ala Gly Glu Phe Lys Leu	20	25	30	
Ile Thr Gly Pro Ser Gly Cys Gly Lys Ser Thr Leu Leu Lys Ile Val	35	40	45	
Ala Ser Leu Ile Ser Pro Thr Ser Gly Thr Xaa Thr Val	50	55	60	

&lt;210&gt; 6757

## 5988

&lt;211&gt; 57

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (15)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (20)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (24)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (41)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (53)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (57)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6757

Val	Arg	Asn	Ser	Arg	Val	Asp	Pro	Arg	Val	Arg	Ser	Phe	Ala	Xaa	Met
1				5					10					15	

Glu	Val	Leu	Xaa	Trp	Thr	His	Xaa	Lys	Glu	Gln	Leu	Glu	Thr	Leu	Arg
		20						25					30		

## 5989

Lys Leu Xaa Arg Arg Glu Val Ala Xaa Gln Trp Leu Arg Pro Ala Glu  
                   35                                  40                                  45

Xaa Asp His Leu Xaa Asp Ser Leu Xaa  
           50                                  55

<210> 6758

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6758

Xaa Cys Phe Thr Phe Xaa Gly Ile Phe Xaa Ala Ile Ile Leu Phe Pro  
       1                                  5                                  10                                  15

Phe Gly Phe Ile Cys Cys Phe Ala Leu Arg Lys Arg Arg Cys Pro Asn  
                   20                                  25                                  30

Cys Gly Xaa Thr Phe Ala  
           35

<210> 6759

<211> 43

<212> PRT

<213> Homo sapiens

<220>

## 5990

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (33)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (38)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6759

Thr	Ile	Phe	Xaa	Gly	His	Ser	Thr	Val	Xaa	Lys	Arg	Cys	Asp	Trp	His
1				5					10					15	

Leu	Leu	His	Asn	Ser	Leu	Tyr	Gly	Ser	Val	Ala	Asp	Asp	Gln	Asn	Leu
			20					25					30		

Xaa	Tyr	Gly	Thr	Gln	Xaa	Pro	Ile	Gln	Leu	Gln
		35					40			

&lt;210&gt; 6760

&lt;211&gt; 87

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6760

Gly	Arg	Phe	Ala	Gly	Thr	Gly	Pro	Glu	Phe	Pro	Gly	Arg	Pro	Thr	Arg
1				5					10					15	

Pro	Glu	Asp	Ala	Glu	Asp	Arg	Pro	Pro	Glu	Leu	Leu	Phe	Ile	His	Gly
			20						25					30	

Gly	His	Thr	Ala	Lys	Ile	Ser	Asp	Phe	Ser	Trp	Asn	Pro	Asn	Glu	Pro
			35					40					45		

Trp	Val	Ile	Cys	Ser	Val	Ser	Glu	Asp	Asn	Ile	Met	Gln	Ile	Trp	Gln
			50				55				60				

Met	Ala	Glu	Asn	Ile	Tyr	Asn	Asp	Glu	Glu	Ser	Asp	Val	Thr	Thr	Ser
			65			70				75					80



## 5991

Glu Leu Glu Gly Gln Gly Ser  
85

<210> 6761

<211> 151

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

## 5992

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (107)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (124)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (128)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (146)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (149)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6761

Gly	Asn	Xaa	Gly	Thr	Pro	Ala	Gly	Thr	Gly	Pro	Glu	Phe	Pro	Gly	Arg
1				5					10					15	

Pro	Thr	Arg	Pro	Pro	Ser	Trp	Asp	Leu	Arg	Ala	Ser	Phe	Ser	Xaa	Leu
			20					25					30		

Leu	Gln	Asp	Gly	Val	Asn	Arg	His	Pro	Arg	Pro	Pro	Pro	Gly	Xaa	Ser
		35					40						45		

Pro	Arg	Ser	Leu	Cys	Arg	Xaa	Ala	Xaa	Gly	Ala	Val	Arg	Ser	Arg	Gly
		50				55					60				

Glu	Lys	Ala	Arg	Xaa	Val	Ser	Glu	Asp	Leu	Cys	Lys	Val	Ser	Gly	Tyr
	65					70				75					80

Ser	Phe	Thr	Ser	Tyr	Trp	Ile	Lys	Trp	Val	Arg	Gln	Met	Pro	Xaa	Lys
				85					90					95	

Gly	Leu	Glu	Xaa	Met	Ala	Arg	Ile	Asp	Pro	Xaa	Asp	Ser	Tyr	Thr	Asn
			100					105					110		

Tyr	Ser	Pro	Ser	Phe	Gln	Gly	His	Val	Thr	Ile	Xaa	Ala	Asp	Lys	Xaa
		115					120					125			

Ile	Ser	Thr	Ala	Thr	Cys	Ser	Gly	Ala	Ala	Glu	Gly	Leu	Gly	His	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

## 5993

130                                      135                                      140  
 His Xaa Leu Leu Xaa Gln Thr  
 145                                      150

<210> 6762  
 <211> 80  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (16)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (69)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (76)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (80)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6762  
 Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Xaa  
   1                                      5                                      10                                      15  
 Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn  
                                     20                                      25                                      30  
 Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser  
                                     35                                      40                                      45  
 Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys  
   50                                      55                                      60  
 Val Tyr Ala Cys Xaa Val Thr His Gln Gly Leu Xaa Ser Pro Val Xaa  
   65                                      70                                      75                                      80

5994

&lt;210&gt; 6763

&lt;211&gt; 131

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (107)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (109)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (121)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (126)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (127)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6763

Leu	Leu	Thr	Met	Arg	Leu	Pro	Ala	Gln	Leu	Leu	Gly	Leu	Leu	Met	Leu
1				5					10					15	

Trp	Val	Ser	Gly	Ser	Ser	Gly	Asn	Ile	Val	Met	Thr	Gln	Ser	Pro	Val
			20					25					30		

Ser	Leu	Tyr	Val	Thr	Pro	Gly	Glu	Pro	Ala	Ser	Ile	Ser	Cys	Arg	Ser
		35					40					45			

Ser	Gln	Thr	Leu	Leu	His	Ser	Asn	Gly	Tyr	Asn	Tyr	Leu	Asp	Trp	Tyr
		50				55					60				

Leu	Gln	Lys	Pro	Gly	Gln	Ser	Pro	Gln	Leu	Leu	Ile	Tyr	Leu	Gly	Ser
65					70					75					80

Asn	Arg	Ala	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly
				85					90					95	

## 5995

Thr Asp Phe Thr Leu Lys Ile Thr Arg Val Xaa Ala Xaa Asp Val Gly  
                   100                  105                  110

Gly Tyr Tyr Tyr Trp Met Gln Ala Xaa Gln Ile His Ser Xaa Xaa Ala  
                   115                  120                  125

Leu Asp Gln  
           130

<210> 6764

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6764

Ser Thr Met Ala Trp Ala Pro Leu Leu Leu Thr Leu Leu Ala His Cys  
       1                  5                  10                  15

Thr Gly Ser Trp Ala Ile Phe Met Leu Thr Gln Pro His Ser Val Ser  
                   20                  25                  30

Glu Ser Pro Gly Lys Thr Val Thr Ile Ser Cys Thr Arg Ser Xaa Gly  
           35                  40                  45

Lys His Cys Gln Gln Leu Cys Ala Val Val Pro Ala Ala Pro Gly Xaa  
           50                  55                  60

Val Pro Pro Pro Leu  
       65

<210> 6765

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

## 5996

<222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (12)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (13)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (29)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (38)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (44)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (53)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (70)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (73)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 6765  
 Gly Xaa Ala Arg Gly Asn His Gly Asn Pro Ser Xaa Xaa Leu Phe Leu  
   1                  5                  10                  15  
  
 Leu Leu Leu Trp Leu Pro Asp Thr Thr Gly Glu Asn Xaa Leu Thr His  
                   20                  25                  30  
  
 Phe Pro Gly Thr Leu Xaa Phe Phe Pro Gly Glu Xaa Ala Thr Leu Ser

5997

35					40					45						
Cys	Trp	Ala	Ser	Xaa	Ser	Val	Tyr	Ser	Ser	Tyr	Leu	Ala	Trp	Tyr	Gln	
50					55					60						
Gln	Lys	Pro	Gly	Gln	Xaa	Pro	Arg	Xaa	Leu	Ile	Tyr	Gly	Ala	Ser	Ser	
65					70					75					80	
Arg																

<210> 6766

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

**<220>**

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

&lt;222&gt; (28)

<223> Xaa equals any of the naturally occurring L-amino acids

**<220>**

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6766

Arg Xaa Asp Asp Pro Ser His Ser Ser Ala Ala Ser Val Gly Asp Arg  
1 5 10 15

Val Thr Ile Thr Cys Pro Gly Xaa Ser Glu His Xaa Gln Arg Cys Lys  
20 25 30

Leu Asp Gln Gln Thr Ile Trp Lys Ala Leu Xaa Ser  
35 40

<210> 6767

5999

Ala Ile Asn Tyr Val Phe Trp Tyr His Gln  
 65 70

&lt;210&gt; 6769

&lt;211&gt; 169

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (32)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (142)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (156)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (157)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (164)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6769

Lys Ala Gly Thr Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro  
 1 5 10 15

Thr Arg Pro Leu Phe Val Val Ala Ala Ala Thr Gly Val Leu Ser Xaa  
 20 25 30

Leu Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ser Ser  
 35 40 45

Val Asn Ile Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Arg Tyr Ala  
 50 55 60

Val Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val Gly  
 65 70 75 80



## 6000

Gly Ile Thr Pro Val Tyr Gly Thr Thr His Tyr Ala Asp Asn Leu Arg  
                             85                            90                            95

Gly Arg Val Thr Ile Thr Ala Asp Lys Ser Thr Asn Ile Ala Tyr Met  
                             100                            105                            110

Glu Leu Lys Ser Leu Lys Phe Glu Asp Thr Ala Met Tyr Phe Cys Ala  
                             115                            120                            125

Arg Val His Asn Ser Tyr Asp Ser Ser Ala Leu Asn Trp Xaa Asp Pro  
                             130                            135                            140

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Xaa Xaa Thr Lys Gly  
                             145                            150                            155                            160

Pro Ser Val Xaa Pro Leu Ala Pro Phe  
                             165

<210> 6770

<211> 82

<212> PRT

<213> Homo sapiens

<400> 6770

Asp Ser Ser Thr Ser Tyr Ser Ala Ser Phe Arg Gly His Val Ile Ile  
                             1                            5                            10                            15

Ser Ala Asp Asn Ser Ile Ser Thr Ala Tyr Leu Gln Trp Ser Ser Leu  
                             20                            25                            30

Lys Ala Ser Asp Ser Ala Ile Tyr Phe Cys Ala Arg Pro Ile Ala Ser  
                             35                            40                            45

Val Lys Ala Arg Leu Val Ala Pro Ser Lys Asp Tyr Trp Gly Gln Gly  
                             50                            55                            60

Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe  
                             65                            70                            75                            80

Pro Leu

<210> 6771

<211> 141

<212> PRT

<213> Homo sapiens

## 6001

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (141)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6771

Gly	Ser	Pro	Ser	Xaa	Glu	Ile	Pro	Arg	Ser	Phe	His	Leu	Val	Ile	Ser
1				5				10						15	

Thr	Glu	His	Arg	Pro	Pro	Thr	Met	Glu	Phe	Gly	Leu	Ser	Trp	Val	Phe
			20					25					30		

Leu	Val	Ala	Ile	Leu	Lys	Gly	Val	Gln	Cys	Glu	Val	Arg	Leu	Val	Glu
		35				40						45			

Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Arg	Ser	Leu	Arg	Leu	Ser	Cys
	50					55					60				

Thr	Thr	Pro	Gly	Phe	Thr	Phe	Asp	Asp	Tyr	Ala	Met	Asn	Trp	Phe	Arg
65					70					75					80

Gln	Ala	Pro	Gly	Arg	Gly	Leu	Glu	Trp	Val	Gly	Phe	Ile	Arg	Ser	Lys
				85					90					95	

Thr	Tyr	Gly	Gly	Thr	Thr	Gln	Tyr	Ala	Ala	Ala	Val	Lys	Gly	Arg	Phe
		100						105					110		

Thr	Ile	Ser	Arg	Asp	Asp	Ser	Lys	Ser	Ile	Val	Tyr	Leu	Gln	Met	Asn
		115					120					125			

Ser	Leu	Lys	Thr	Glu	Asp	Thr	Ala	Arg	Val	Leu	Leu	Xaa
	130					135					140	

&lt;210&gt; 6772

&lt;211&gt; 118

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 6002

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (54)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (93)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (111)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6772

Ile	Arg	Xaa	Ser	Ser	Thr	Pro	Tyr	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Leu
1				5					10					15	

Glu	Ile	Lys	Gly	Thr	Leu	Ala	Ala	Pro	Ser	Val	Phe	Ile	Leu	Pro	Pro
			20					25					30		

Ser	Asp	Glu	Gln	Leu	Lys	Ser	Gly	Thr	Ala	Ser	Xaa	Val	Cys	Leu	Leu
		35					40					45			

Asn	Asn	Phe	Tyr	Pro	Xaa	Glu	Ala	Lys	Val	Gln	Trp	Lys	Val	Asp	Asn
		50					55				60				

Ala	Leu	Gln	Ser	Gly	Asn	Phe	Gln	Val	Glu	Cys	His	Arg	Ala	Gly	Gln
	65				70					75					80

Gln	Gly	Gln	His	Leu	Gln	Pro	Gln	Gln	His	Pro	Asp	Xaa	Glu	Gln	Ser
				85					90					95	

Arg	Leu	Arg	Gly	Asn	Thr	Lys	Phe	Tyr	Gly	Cys	Glu	Phe	Thr	Xaa	Gln
			100					105					110		

Gly	Leu	Arg	Leu	Ala	Arg
					115

&lt;210&gt; 6773

&lt;211&gt; 147

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

## 6003

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6773

Phe Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Xaa Glu Leu Leu  
 1 5 10 15

Ile Tyr Ala Ala Ser Ala Leu Arg Gly Gly Val Pro Ser Arg Phe Ser  
 20 25 30

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
 35 40 45

Pro Glu Asp Phe Ala Thr Tyr Phe Cys Gln Gln Ser Asp Asp Phe Pro  
 50 55 60

Phe Ser Phe Gly Gln Gly Thr Arg Leu Glu Met Lys Arg Thr Val Ala  
 65 70 75 80

Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser  
 85 90 95

Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu  
 100 105 110

Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Thr Pro  
 115 120 125

Arg Arg Val Ser Gln Ser Arg Thr Ala Arg Thr Ala Pro Thr Ala Ser  
 130 135 140

Ala Ala Pro  
 145

&lt;210&gt; 6774

&lt;211&gt; 159

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 6004

<222> (82)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (114)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (117)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (118)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (119)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (127)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (130)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (136)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (137)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (138)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (139)

## 6005

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (141)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (150)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (153)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (154)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (158)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (159)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6774

Asn	Ser	Ala	Glu	Xaa	Asn	Pro	Ser	Ala	Phe	Phe	Ser	Ser	Cys	Arg	Ala
1				5					10					15	

Ser	Gln	Ser	Val	Ser	Thr	Arg	Phe	Val	Ala	Trp	Tyr	Gln	Gln	Lys	Leu
			20					25					30		

Gly	Gln	Ala	Pro	Arg	Val	Leu	Ile	Tyr	Ser	Thr	Ser	Ser	Arg	Ala	Pro
		35					40					45			

Gly	Ile	Pro	Arg	Thr	Gly	Ser	Val	Ala	Val	Gly	Leu	Gly	Thr	Glu	Leu
	50					55					60				

Ser	Leu	Leu	Gln	His	Gln	Arg	Ala	Trp	Glu	Pro	Glu	Asp	Phe	Ala	Val
	65					70				75					80

Leu	Xaa	Leu	Cys	Asn	Ser	Tyr	Arg	Arg	Ala	Leu	Gly	His	Phe	Ser	Gly
				85					90					95	

## 6006

Gly Gly Asp Pro Arg Trp Glu Ile Glu Thr Glu Leu Trp Ala Cys Asn  
                   100                  105                  110

His Xaa Val Phe Xaa Xaa Xaa Pro Ala Ile Leu Ile Gly Ala Xaa Trp  
                   115                  120                  125

Lys Xaa Leu Gly Leu Ala Leu Xaa Xaa Xaa Xaa Pro Xaa Gly Lys Asn  
                   130                  135                  140

Phe Phe Phe Pro Gly Xaa Gly Gln Xaa Xaa Lys Gly Arg Xaa Xaa  
                   145                  150                  155

&lt;210&gt; 6775

&lt;211&gt; 161

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (149)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6775

Ser Thr Met Ala Trp Ala Pro Leu Leu Leu Thr Leu Leu Ala His Cys  
       1                  5                  10                  15

Thr Gly Ser Trp Ala Ile Phe Met Leu Thr Gln Pro His Ser Val Ser  
                   20                  25                  30

Glu Pro Pro Gly Lys Thr Val Thr Ile Ser Cys Thr Arg Ser Ser Gly  
                   35                  40                  45

Ser Ile Ala Ser Asn Tyr Val Gln Trp Phe Gln Gln Arg Pro Gly Ser  
                   50                  55                  60

Ser Pro Thr Thr Val Ile Tyr Glu Asp Asn Gln Arg Pro Ser Gly Val  
                   65                  70                  75                  80

Pro Asp Arg Phe Ser Gly Ser Ile Asp Ser Ser Ser Asn Ser Ala Ser  
                   85                  90                  95

Leu Thr Ile Ser Gly Leu Lys Thr Glu Asp Glu Ala Asp Tyr Tyr Cys  
                   100                  105                  110

Gln Ser Tyr Asp Ser Ser Asn Val Val Phe Gly Gly Gly Thr Lys Leu  
                   115                  120                  125

Thr Val Leu Gly Gln Ala Gln Gly Leu Pro Leu Gly His Ser Val Pro  
                   130                  135                  140

6007

Ala Leu Leu Leu Xaa Ser Phe Lys Pro Thr Arg Pro His Trp Cys Val  
145                      150                      155                      160

Ser

<210> 6776

<211> 64

<212> PRT

<213> Homo sapiens

<400> 6776

Ala Pro Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser  
1                      5                      10                      15

Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser  
20                      25                      30

Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn  
35                      40                      45

Thr Lys Val Asp Lys Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His  
50                      55                      60

<210> 6777

<211> 151

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids



## 6008

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (105)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (123)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (130)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (151)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6777

Glu	Ala	Ala	Leu	Val	Val	Pro	Gln	Pro	Trp	Pro	Gly	Pro	Phe	Ser	Ser
1				5					10					15	

Ser	Ala	Ser	Ser	Leu	Thr	Ala	Gln	Ala	Ser	Val	Thr	Ser	Tyr	Val	Leu
			20				25						30		

Thr	Gln	Pro	Pro	Ser	Val	Ser	Val	Ala	Pro	Gly	Gln	Thr	Ala	Arg	Ile
	35						40					45			

Thr	Cys	Gly	Ala	Asn	Asn	Ile	Gly	Ile	Lys	Asn	Val	His	Trp	Tyr	Gln
	50					55					60				

Gln	Lys	Pro	Gly	Gln	Ala	Pro	Val	Leu	Val	Val	Tyr	Asp	Asp	Lys	Arg
65					70					75					80

Pro	Ala	Leu	Xaa	Asp	Pro	Xaa	Arg	Ile	Phe	Trp	Phe	Gln	Leu	Leu	Gly
				85					90					95	

Thr	Xaa	Ala	Thr	Leu	Thr	Ile	Asn	Xaa	Val	Glu	Pro	Gly	Met	Lys	Pro
		100						105					110		

Thr	Ile	Thr	Val	Arg	Cys	Gly	Ile	Leu	Val	Xaa	Pro	Arg	Ser	Val	Arg
		115					120					125			

Arg	Xaa	Asp	Gln	Thr	Tyr	Arg	Leu	Ile	Asn	Pro	Arg	Leu	Pro	Leu	Gly
	130						135				140				

His	Ser	Val	Pro	Pro	Phe	Xaa
145						150

6009

&lt;210&gt; 6778

&lt;211&gt; 134

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (114)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (122)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (127)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6778

Ala	Gly	Gly	Lys	Leu	Cys	Arg	Asn	Ile	Ser	Thr	Met	Ala	Trp	Ala	Leu
1				5					10					15	

Leu	Leu	Leu	Thr	Leu	Leu	Thr	Gln	Gly	Thr	Gly	Ser	Trp	Ala	Gln	Ser
			20					25					30		

Ala	Leu	Thr	Gln	Pro	Pro	Ser	Val	Ser	Gly	Ser	Pro	Gly	Gln	Ser	Val
		35					40					45			

Thr	Ile	Ser	Cys	Thr	Gly	Thr	Ser	Ser	Asp	Val	Gly	Gly	Tyr	Asn	Arg
	50					55					60				

Val	Ser	Trp	Tyr	Gln	Gln	Ser	Pro	Gly	Thr	Ala	Pro	Lys	Leu	Met	Ile
65					70					75					80

Tyr	Glu	Val	Ser	Asn	Arg	Pro	Ser	Arg	Val	Pro	Asp	Arg	Phe	Ser	Gly
				85					90					95	

Ser	Lys	Ser	Gly	Asn	Thr	Gly	Phe	Leu	Asp	Ile	Phe	Trp	Ala	Pro	Ser
			100					105					110		

Leu	Xaa	Thr	Lys	Gly	Glu	Leu	Leu	Leu	Xaa	Ala	Arg	Ile	Lys	Xaa	Ser
		115					120						125		

Lys	Phe	Phe	Phe	Leu	Phe
					130

## 6010

&lt;210&gt; 6779

&lt;211&gt; 58

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (31)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6779

Gly	Thr	Xaa	Leu	Xaa	Trp	Phe	His	Gln	Arg	Pro	Gly	Gln	Xaa	Pro	Arg
1				5					10					15	

Arg	Leu	Leu	Tyr	Lys	Ile	Ser	Asn	Arg	Glu	Leu	Trp	Arg	Pro	Xaa	Gln
			20					25					30		

Ile	Xaa	Arg	Gln	Trp	Gly	Gln	Ala	Leu	Ile	Cys	Thr	Leu	Lys	Ile	Ser
		35					40						45		

Arg	Val	Glu	Ala	Glu	Asp	Val	Gly	Ile	Tyr
	50					55			

&lt;210&gt; 6780

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

## 6011

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6780

His	Lys	Xaa	Val	Val	Xaa	Val	Val	Gln	Tyr	Ser	Cys	Ser	Pro	Gly	Asp
1				5				10						15	

Pro	Val	Val	Val	Glu	Arg	Pro	Pro	Pro	Arg	Trp	Ser	Cys	Gln	Leu	Phe
			20					25					30		

Val	Pro	Xaa	Lys
			35

&lt;210&gt; 6781

&lt;211&gt; 46

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (9)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (13)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

## 6012

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6781

Leu	Gly	Phe	Phe	Xaa	Phe	Phe	Phe	Xaa	Glu	Met	Glu	Xaa	Val	Pro	Asn
1				5				10					15		

Ser	Cys	Ser	Pro	Gly	Asp	Pro	Leu	Val	Leu	Glu	Xaa	Pro	Pro	Pro	Arg
			20				25						30		

Trp	Arg	Xaa	Ser	Phe	Gly	Ser	Leu	Leu	Glu	Arg	Xaa	Gln	Ser
		35					40					45	

<210> 6782

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6782

Xaa	Val	Pro	Asn	Ser	Cys	Ser	Pro	Gly	Asp	Pro	Leu	Val	Leu	Glu	Arg
1				5				10					15		

Pro	Pro	Xaa	Arg	Trp	Ser	Ser	Ser	Phe	Ile	Pro	Xaa	Glu	Gly	Val	Asn
			20					25					30		

## 6013

Ser Lys Lys  
35

<210> 6783

<211> 32

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6783

Xaa	Asp	Leu	Val	Pro	Asn	Ser	Cys	Ser	Pro	Gly	Asp	Pro	Leu	Val	Leu
1				5					10				15		

Glu	Arg	Pro	Pro	Pro	Arg	Trp	Xaa	Pro	Ala	Phe	Val	Leu	Leu	Glu	Arg
			20				25					30			

<210> 6784

<211> 37

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

## 6014

&lt;400&gt; 6784

Gly His Gly Leu Xaa Leu Val Pro Asn Ser Cys Ser Pro Gly Asp Pro  
1 5 10 15  
Leu Val Leu Glu Arg Pro Pro Pro Arg Trp Ser Ser Xaa Ala Leu Phe  
20 25 30  
Pro Ile Ile Glu Xaa  
35

&lt;210&gt; 6785

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (27)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (31)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (34)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6785

His Gly Leu Val Pro Asn Ser Cys Ser Pro Gly Asp Pro Leu Val Leu  
1 5 10 15  
Glu Arg Pro Pro Pro Arg Trp Ser Ser Xaa Xaa Cys Ser Gln Xaa Leu  
20 25 30  
Arg Xaa Asn Trp  
35

&lt;210&gt; 6786

## 6015

<211> 36  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6786  
Val Val Ser Val Trp Gly Leu Val Pro Asn Ser Cys Ser Pro Gly Asp  
1 5 10 15  
Pro Leu Val Leu Glu Arg Pro Pro Pro Arg Trp Ser Xaa Ser Phe Val  
20 25 30  
Pro Leu Val Arg  
35

<210> 6787  
<211> 43  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (41)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6787  
Leu Pro Leu Gln Ala Thr Cys Lys Ile Leu Gly Ala Lys Asp Gly Leu  
1 5 10 15  
Val Pro Asn Ser Cys Ser Pro Gly Asp Pro Leu Val Leu Glu Arg Pro  
20 25 30  
Pro Pro Arg Trp Ser Thr Ser Phe Xaa Pro Leu  
35 40

<210> 6788  
<211> 49  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1)



## 6016

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6788

Xaa	Leu	Phe	Phe	Phe	Phe	Phe	Phe	Leu	Xaa	Glu	Asn	Asp	Phe	Ile	Leu
1				5					10					15	

Ile	Asn	Leu	Val	Pro	Asn	Ser	Cys	Ser	Pro	Gly	Asp	Pro	Leu	Val	Leu
			20					25					30		

Glu	Arg	Ala	Ser	Pro	Arg	Trp	Gly	Pro	Xaa	Phe	Val	Ala	Xaa	Gly	Ala
		35					40						45		

Gly

<210> 6789

<211> 31

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6789

Thr	Arg	Pro	Glu	Phe	Leu	Gln	Pro	Gly	Gly	Ser	Thr	Ser	Phe	Arg	Ala
1				5					10					15	

Pro	Pro	Arg	Arg	Trp	Ser	Ser	Ser	Phe	Ile	Pro	Arg	Glu	Gly	Xaa	
			20					25					30		

## 6017

&lt;210&gt; 6790

&lt;211&gt; 46

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6790

Xaa Glu Asp Leu Arg Leu Pro Glu Gly Asp Leu Gly Met Glu Ile Glu  
1 5 10 15

Gln Lys Tyr Asp Cys Gly Glu Glu Ile Leu Ile Thr Val Leu Ser Ala  
20 25 30

Met Thr Glu Glu Ala Ala Val Ala Ile Lys Ala Met Ala Lys  
35 40 45

&lt;210&gt; 6791

&lt;211&gt; 108

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (76)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (82)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (102)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (105)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6791

Glu Lys Met Val Leu Leu Thr Ala Val Leu Leu Leu Ala Ala Tyr  
1 5 10 15

## 6018

Ala Gly Pro Ala Gln Ser Leu Gly Ser Phe Val His Cys Glu Pro Cys  
                   20                  25                  30

Asp Glu Lys Ala Leu Ser Met Cys Pro Pro Ser Pro Leu Gly Cys Glu  
                   35                  40                  45

Leu Val Lys Glu Pro Gly Cys Gly Cys Cys Met Thr Cys Ala Leu Ala  
                   50                  55                  60

Glu Gly Gln Ser Cys Gly Val Tyr Thr Glu Arg Xaa Ala Gln Gly Leu  
                   65                  70                  75                  80

Arg Xaa Leu Pro Arg Gln Asp Glu Glu Lys Pro Leu His Ala Leu Leu  
                   85                  90                  95

His Gly Arg Gly Val Xaa Leu Asn Xaa Lys Ser Tyr  
                   100                  105

&lt;210&gt; 6792

&lt;211&gt; 53

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6792

Gln Arg Pro Cys Leu Trp Lys Val Leu Leu Gln Ala Lys Gly Ser His  
           1                  5                  10                  15

Pro Ser Arg Leu Gln Thr Thr Asp Asn Leu Leu Pro Met Ser Pro Glu  
                   20                  25                  30

Glu Phe Asp Glu Val Ser Arg Ile Val Gly Ser Val Glu Phe Asp Ser  
                   35                  40                  45

Met Met Asn Thr Val  
           50

&lt;210&gt; 6793

&lt;211&gt; 98

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (72)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

## 6019

&lt;221&gt; SITE

&lt;222&gt; (74)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (94)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (95)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (96)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6793

Ala	Leu	His	Ser	Leu	Cys	Gly	Ala	Arg	Pro	Pro	Val	Pro	Val	Met	Ala
1				5					10					15	

Met	Leu	Arg	Val	Gln	Pro	Glu	Ala	Gln	Ala	Lys	Val	Asp	Val	Phe	Arg
			20					25					30		

Glu	Asp	Leu	Cys	Thr	Lys	Thr	Glu	Asn	Leu	Leu	Gly	Ser	Tyr	Phe	Pro
		35					40					45			

Lys	Lys	Ile	Ser	Glu	Leu	Asp	Ala	Phe	Leu	Lys	Glu	Pro	Ala	Leu	Asn
		50				55					60				

Glu	Ala	Asn	Leu	Ser	Asn	Leu	Xaa	Ala	Xaa	Trp	Thr	Ser	Gln	Cys	Leu
65					70					75				80	

Ile	Gln	Ser	Arg	Arg	Lys	Arg	Lys	Arg	Asn	Gly	Arg	Asn	Xaa	Xaa	Xaa
			85						90					95	

Lys Glu

&lt;210&gt; 6794

&lt;211&gt; 136

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (101)

## 6020

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6794

Tyr	Thr	Glu	Ser	Trp	Tyr	Ala	Cys	Arg	Tyr	Arg	Ser	Gly	Ile	Pro	Gly
1				5					10					15	

Ser	Thr	His	Ala	Ser	Ala	Ser	Gly	His	His	Ser	Gly	Pro	Ser	Leu	His
			20					25					30		

Ala	Glu	Asn	His	Thr	Ser	Gln	Thr	Phe	Thr	Gln	His	Phe	Leu	Pro	Gln
		35					40					45			

Ser	Gln	Lys	Met	His	Lys	Glu	Glu	His	Glu	Val	Ala	Val	Leu	Gly	Ala
	50					55					60				

Pro	Pro	Ser	Thr	Ile	Leu	Pro	Arg	Ser	Thr	Val	Ile	Asn	Ile	His	Ser
65					70					75				80	

Glu	Thr	Ser	Val	Pro	Asp	His	Val	Val	Trp	Ser	Leu	Phe	Asn	Thr	Leu
				85					90					95	

Phe	Leu	Asn	Trp	Xaa	Cys	Leu	Gly	Phe	Ile	Ala	Phe	Ala	Tyr	Ser	Val
		100						105					110		

Lys	Ser	Arg	Asp	Arg	Lys	Met	Val	Gly	Xaa	Arg	Asp	Arg	Gly	Pro	Xaa
		115					120					125			

Leu	Cys	Leu	His	Arg	Ser	Xaa	Ala
130						135	

<210> 6795

<211> 29

<212> PRT

<213> Homo sapiens

## 6021

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6795

Xaa Met Xaa Ile Ser Lys Pro His Phe Glu Lys Leu Phe Pro Ser Gln

1

5

10

15

Cys Tyr Leu Cys Leu Leu Leu Asn Asn His Phe Leu Thr

20

25

&lt;210&gt; 6796

&lt;211&gt; 48

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (21)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (26)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6796

Phe His Leu Ile Lys Ser Leu Lys Tyr Gln Thr Met Arg Xaa His Glu

1

5

10

15

Xaa Thr Trp Ala Xaa Asn Leu Arg Tyr Xaa Lys Pro Asp Leu Asp Cys

20

25

30

Met Ala Gly Leu Arg Arg Phe Thr Leu Glu Leu Gln His Thr Tyr Trp  
35 40 45

<210> 6797

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6797

Ala Met Arg Cys Met Pro Val Trp Asn Gly Gln Thr Leu Thr Phe Val  
1 5 10 15

Gln Asp Arg Pro Ser Asp Lys Thr Trp Thr Tyr Asn Arg Xaa Asn Val  
20 25 30

Val	Met	Pro	Asp	Asp	Gly	Ala	Pro	Phe	Arg	Tyr	Ser	Phe	Ser	Ala	Leu
		35					40					45			

Lys Asp Arg His Asn Ala Leu Xaa Gly Glu Leu Asp  
50 55 60

<210> 6798

<211> 109

<212> PRT

<213> Homo sapiens

<400> 6798

Leu Ser Arg Ala Leu Ala Val Glu Leu Leu Asp Lys Val Asn Asn Pro  
1 5 10 15

Asp Asn His Ala His Tyr Thr Glu Ala Asp Asp Asp Asp Phe Glu Pro  
20 25 30

## 6023

His Ala Ile Ile Arg His Thr Ile Arg Ser Thr Asn Arg Asn Ala Arg  
           35                          40                          45  
 Ala Glu Arg Thr Ala Ser Glu Ile Asn Phe Asp Lys Leu Gln Phe Glu  
           50                          55                          60  
 Pro Pro Leu Arg Lys Glu Thr Glu Ala Arg Asp Glu Met Gly Leu Ser  
           65                          70                          75                          80  
 Ser Arg Pro Lys Phe His Val Tyr Ser Gly Ile Leu Leu Leu Met Val  
                           85                          90                          95  
 Gln Ile Leu Ala Asn His Leu Lys Thr Leu Gln Tyr His  
                           100                          105

&lt;210&gt; 6799

&lt;211&gt; 69

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6799

Phe Asn Leu Ile Ser Pro Ser Ile Ser Arg Tyr Cys Lys Lys Pro Leu  
           1                          5                          10                          15  
 Thr Ser Asn Cys Thr Ile Gln Ile Ala Thr Pro Gly Lys Gly Lys Lys  
                           20                          25                          30  
 Ser Thr Pro Lys Pro Ile Pro Ile Leu Ala Ala Gly Phe Cys Ser Asp  
                           35                          40                          45  
 Lys Met Ser Leu Leu Leu Val Tyr Gly Ser Trp Phe Gln Pro Thr Ile  
           50                          55                          60  
 Glu Arg Val Val Arg  
           65

&lt;210&gt; 6800

&lt;211&gt; 54

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;



## 6024

<221> SITE  
 <222> (16)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (17)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (46)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (49)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (51)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (54)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 6800  
 Ala Lys Gly Glu Leu Gln Leu Xaa Met Leu Glu Ile Val His Pro Xaa  
   1                  5                  10                  15  
 Xaa Val Glu Lys His Tyr Arg Glu Met Glu Glu Lys Leu Ala Leu Ile  
                   20                  25                  30  
 Ile Gln Lys His Trp Lys Gly Ser Gly Lys Gly Lys Ile Xaa Thr Asn  
           35                  40                  45  
 Xaa Ser Xaa Leu Leu Xaa  
   50  
  
 <210> 6801  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 6801  
 Lys Ile Leu Phe Val Cys Ser Val Lys Leu Ser Leu Tyr Val Cys Leu

## 6025

1                    5                    10                    15  
 Leu Gln Leu Ser Pro Phe Val Tyr Ser Glu Phe Ala Arg Glu Arg Asn  
                   20                    25                    30  
 Leu His Val Ser Leu Leu Asp Pro Thr Leu  
                   35                    40

&lt;210&gt; 6802

&lt;211&gt; 174

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (168)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (172)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6802

Ser Asp Gln Asp Leu Asn Arg Met Arg Ser Glu Leu Leu Val Pro Gly  
 1                    5                    10                    15

Ser Gln Leu Ile Leu Gly Pro His Glu Ser Lys Ile Pro Ile Leu Leu  
                   20                    25                    30

Ile Gln Gln Pro Gly Lys Val Thr Gly Glu Asp Arg Leu Gly Trp Gly  
                   35                    40                    45

Ser Gly Trp Asp Val Leu Leu Pro Lys Gly Trp Gly Met Ala Phe Trp  
                   50                    55                    60

Ile Pro Phe Ile Tyr Arg Gly Val Arg Val Gly Gly Leu Lys Glu Ser  
                   65                    70                    75                    80

Ala Val His Ser Gln Tyr Lys Arg Ser Pro Asn Val Pro Gly Asp Phe  
                   85                    90                    95

Pro Asp Cys Pro Ala Gly Met Leu Phe Ala Glu Glu Gln Ala Lys Asn  
                   100                    105                    110

Leu Leu Glu Lys Tyr Lys Arg Arg Pro Pro Ala Lys Arg Pro Asn Tyr  
                   115                    120                    125

Val Lys Leu Gly Thr Leu Ala Pro Phe Cys Cys Pro Trp Glu Gln Leu

## 6026

130	135	140
Thr Gln Asp Trp Glu Ser Arg Val Gln Ala Tyr Glu Glu Pro Ser Val		
145	150	155 160
Ala Ser Ser Pro Asn Gly Lys Xaa Ser Asp Leu Xaa Lys Ile		
165	170	

&lt;210&gt; 6803

&lt;211&gt; 122

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (105)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (112)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6803

Arg Gln Val Leu Val Leu Phe Ile Asp Glu Ala Ser Gln Lys Met Ser
1 5 10 15

Lys Gln Gln Pro Thr Gln Phe Ile Asn Pro Glu Thr Pro Gly Tyr Val
20 25 30

Gly Phe Ala Asn Leu Pro Asn Gln Val His Arg Lys Ser Val Lys Lys
35 40 45

Gly Phe Glu Phe Thr Leu Met Val Val Gly Glu Ser Gly Leu Gly Lys
50 55 60

Ser Thr Leu Ile Asn Ser Leu Phe Leu Thr Asp Leu Tyr Pro Glu Arg
65 70 75 80

Val Ile Pro Gly Ala Ala Glu Lys Ile Glu Arg Thr Val Gln Ile Glu
85 90 95

Ala Ser Thr Val Glu Ile Glu Glu Xaa Gly Val Lys Leu Arg Leu Xaa
100 105 110

Ser Gly Arg Tyr Pro Trp Leu Trp Val Thr
115 120

6027

&lt;210&gt; 6804

&lt;211&gt; 115

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (63)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (100)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (103)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6804

Trp	Xaa	Pro	Arg	Ala	Ala	Gly	Ile	Arg	His	Glu	Gly	Arg	Ser	Gly	Ala
1				5				10					15		

Val	Asp	Lys	Arg	Ala	Arg	Glu	Ala	Gly	Asn	Ile	Asn	Gln	Ser	Leu	Leu
		20					25					30			

Thr	Leu	Gly	Arg	Val	Ile	Thr	Ala	Leu	Val	Glu	Arg	Thr	Pro	His	Val
		35				40					45				

Pro	Tyr	Arg	Glu	Ser	Lys	Leu	Thr	Arg	Ile	Leu	Gln	Asp	Ser	Xaa	Gly
	50				55					60					

Gly	Arg	Thr	Arg	Thr	Ser	Ile	Ile	Ala	Thr	Ile	Ser	Pro	Ala	Ser	Leu
65				70				75						80	

Asn	Leu	Glu	Glu	Thr	Leu	Ser	Thr	Leu	Glu	Tyr	Ala	His	Arg	Ala	Lys
			85					90					95		

Asn	Ile	Leu	Xaa	Lys	Pro	Xaa	Val	Asn	Gln	Lys	Leu	Thr	Lys	Lys	Ala
		100					105					110			

Leu	Ile	Lys
		115

6028

&lt;210&gt; 6805

&lt;211&gt; 19

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6805

Val	Trp	Lys	Arg	His	Ser	Arg	Met	Ser	Tyr	Leu	Xaa	Val	Pro	Tyr	Val
1					5				10					15	

Thr His Ser

&lt;210&gt; 6806

&lt;211&gt; 146

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (90)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (105)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (114)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (145)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6806

Arg	Thr	Thr	Val	Thr	Glu	Val	Ser	Arg	Ala	Phe	Ser	Leu	Leu	Cys	Lys
1						5			10					15	

Met Ala Thr Leu Lys Glu Lys Leu Ile Ala Pro Val Ala Glu Glu Glu

## 6029

	20		25		30	
Ala Thr Val Pro Asn Asn Lys Ile Thr Val Val Gly Val Gly Gln Val						
	35		40		45	
Gly Met Ala Cys Ala Ile Ser Ile Leu Gly Lys Ser Leu Ala Asp Glu						
	50		55		60	
Leu Ala Leu Val Asp Val Leu Glu Asp Lys Leu Lys Gly Glu Met Met						
	65		70		75	80
Asp Leu His His Gly Ser Leu Phe Leu Xaa Thr Pro Lys Ile Val Ala						
		85		90		95
Asp Lys Asp Tyr Ser Val Thr Ala Xaa Ser Lys Ile Val Val Val Thr						
	100		105		110	
Ala Xaa Val Arg Gln Gln Glu Gly Glu Ser Arg Leu Asn Leu Val Gln						
	115		120		125	
Arg Asn Val Asn Val Phe Lys Phe Ile Ile Pro Gln Ile Val Lys Tyr						
	130		135		140	
Xaa Ser						
145						

&lt;210&gt; 6807

&lt;211&gt; 175

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

## 6030

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

## 6031

<220>  
<221> SITE  
<222> (51)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (52)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (56)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (74)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (114)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (137)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (142)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (143)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (163)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (171)  
<223> Xaa equals any of the naturally occurring L-amino acids



## 6032

&lt;400&gt; 6807

Leu Xaa Pro Ala Xaa Xaa Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg  
1 5 10 15

Pro Thr Ser Ser Ser Ser Arg Ala Ala Ala Leu Glu Asp Xaa Arg Leu  
20 25 30

Arg Thr Gln Pro Cys Gln Xaa Xaa Ala Xaa Xaa Xaa Gly Xaa Xaa Xaa  
35 40 45

Xaa Xaa Xaa Xaa Ala Ala Val Xaa Gln Arg Arg Asp Trp Glu Asn Pro  
50 55 60

Gly Val Thr Gln Leu Asn Arg Leu Ala Xaa His Pro Pro Phe Ala Ser  
65 70 75 80

Trp Arg Asn Ser Glu Glu Ala Arg Thr Asp Arg Pro Ser Gln Gln Leu  
85 90 95

Arg Ser Leu Asn Gly Glu Trp Asp Ala Pro Cys Ser Gly Ala Leu Ser  
100 105 110

Ala Xaa Gly Val Val Val Thr Arg Ser Val Thr Ala Thr Leu Ala Ser  
115 120 125

Ala Leu Ala Pro Ala Pro Phe Ala Xaa Phe Pro Ser Phe Xaa Xaa Thr  
130 135 140

Phe Ala Gly Phe Pro Arg Gln Ala Leu Asn Arg Gly Leu Pro Leu Gly  
145 150 155 160

Phe Arg Xaa Ser Ala Leu Arg His Leu Asp Xaa Lys Lys Leu Asp  
165 170 175

&lt;210&gt; 6808

&lt;211&gt; 46

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

6033

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6808

Xaa Xaa Lys Ser Trp Cys Ser Thr Ala Val Ala Xaa Ala Leu Glu Leu  
1 5 10 15

Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Glu Cys Gln Val Ile  
20 25 30

Val Ser Gln Pro Ile Ile Phe Lys Thr Glu Thr Pro Ser Asn  
35 40 45

&lt;210&gt; 6809

&lt;211&gt; 91

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (72)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (85)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6809

Leu Leu Xaa Met Arg Leu Pro Ala Gln Leu Leu Xaa Leu Leu Met Leu  
1 5 10 15

Trp Val Ser Gly Ser Ser Gly Asn Ile Val Met Thr Gln Ser Pro Leu  
20 25 30

Ser Leu Pro Val Thr Pro Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser  
35 40 45

## 6034

Ser Gln Thr Leu Leu His Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr  
 50 55 60

Leu Gln Lys Pro Gly Gln Ser Xaa Gln Leu Leu Ile Tyr Leu Gly Ser  
 65 70 75 80

Asn Arg Ala Phe Xaa Gly Ser Leu Thr Gly Phe  
 85 90

<210> 6810

<211> 137

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6810

Xaa Xaa Ile Cys Glu Leu Pro Leu Lys Leu Val Arg Pro Ala Gly Thr  
 1 5 10 15

Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Xaa Leu Ser Tyr Asn  
 20 25 30

Lys Leu Lys Asn Ile Pro Thr Val Asn Glu Asn Leu Glu Asn Tyr Tyr  
 35 40 45

Leu Glu Val Asn Gln Leu Glu Lys Phe Asp Ile Lys Ser Phe Cys Lys  
 50 55 60

Ile Leu Gly Pro Leu Ser Tyr Ser Lys Ile Lys Gln Lys Leu Phe Met  
 65 70 75 80

Ser Ile Ala Ser Gln Lys Pro Val Phe His Arg Ile Cys Met Asn Val  
 85 90 95

## 6035

Tyr Val Leu Leu Thr Lys Ser Leu Leu Ile Asn Ile Cys Ile Leu Glu  
                   100                  105                  110

Gln Tyr Phe Met Val Met Phe Phe Cys Val Ser Val Phe Ile Val Ser  
           115                  120                  125

Ile Phe Tyr Tyr Cys Leu Leu Leu Pro  
       130                  135

<210> 6811

<211> 142

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (138)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6811

Pro Arg Val Arg Ala Val Met Ala Pro Arg Thr Leu Leu Leu Leu Leu  
       1                  5                  10                  15

Leu Gly Ala Leu Ala Leu Thr Gln Thr Trp Ala Gly Ser His Ser Met

6036

	20						25						30					
Arg Tyr Phe Thr Thr Ser Val Ser Arg Pro Gly Arg Gly Glu Pro Arg																		
	35						40						45					
Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Gln Phe Val Arg Phe Asp																		
	50						55						60					
Ser Asp Ala Xaa Ser Gln Arg Met Glu Pro Arg Ala Pro Trp Ile Glu																		
	65						70						75					
Gln Glu Arg Pro Glu Tyr Trp Asp Gln Glu Thr Arg Asn Val Lys Ala																		
	85						90						95					
His Ser Gln Ile Asp Arg Val Asp Leu Gly Thr Leu Arg Gly Tyr Tyr																		
	100						105						110					
Asn Gln Ser Glu Ala Gly Ser Xaa Thr Xaa Xaa Met Met Tyr Gly Cys																		
	115						120						125					
Xaa Val Gly Phe Gly Arg Ala Leu Pro Xaa Arg Val Pro Thr																		
	130						135						140					

<210> 6812

<211> 130

<212> PRT

<213> Homo sapiens

<220>

&lt;221&gt; SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6812

Glu Ala Cys Xaa Asp Leu Ala Lys Glu Gln Gly Pro Tyr Glu Thr Tyr  
1 5 10 15

Glu Gly Ser Pro Val Ser Lys Gly Ile Leu Gln Tyr Asp Met Trp Asn  
20 25 30

Val Thr Pro Thr Asp Leu Trp Asp Trp Lys Val Leu Lys Glu Lys Ile  
35 40 45

Ala Lys Tyr Gly Ile Arg Asn Ser Leu Leu Ile Ala Pro Met Pro Thr

6037

[illegible]

<210> 6813

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

$\langle 220 \rangle$

<221> SITE

$\langle 222 \rangle$  (10)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$ 

&lt;221&gt; SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

**<220>**

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

## 6038

&lt;222&gt; (61)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6813

Thr Met Gln Ala Xaa Asp Asn Ile Thr Xaa Ala Arg Leu Leu Gln Gln

1

5

10

15

Glu Val Leu Gln Asn Val Ser Asp Ala Glu Ser Cys Tyr Leu Val His

20

25

30

Thr Leu Leu Glu Phe Tyr Leu Lys Thr Val Phe Lys Asn Tyr His Asn

35

40

45

Arg Thr Val Glu Val Arg Asp Xaa Xaa Xaa Ile Leu Xaa

50

55

60

&lt;210&gt; 6814

&lt;211&gt; 72

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (47)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (59)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (70)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6814

Lys Thr Gln Glu Thr Thr Ser Ile Ser Val Thr His Phe Leu Ser Phe

1

5

10

15

Leu Thr Gly Phe Trp Lys Leu Ala Ile Cys Met Ala Lys Thr Asp Leu

20

25

30

Ser Leu Xaa His Gln Pro Asp Lys Lys Gly Val Pro Arg Asp Xaa Ile

6039

35                      40                      45  
 Leu Pro Ile Ser Asp Val Arg Ala Ser Ile Xaa Ala Trp Gly Gln Leu  
   50                      55                      60  
 Pro Leu Val Gly Thr Xaa His His  
   65                      70

<210> 6815

<211> 209

<212> PRT

<213> Homo sapiens

**<220>**

&lt;221&gt; SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

**<220>**

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$ 

<221> SITE

<222> (191)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

&lt;221&gt; SITE

<222> (193)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (201)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (206)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6815

Gly Asp Gln Pro Thr Ala Xaa Cys Xaa Cys Ile Gln Arg Gln Val Pro  
1 5 10 15

Pro Val Pro Ala Ala Arg Ala Pro Gln Ser Arg Thr Arg Ser Ala Gln  
20 25 30



## 6040

Ala Lys Leu Ala Leu Thr Met Pro Val Lys Gly Gly Thr Lys Cys Ile  
           35                          40                          45  
 Lys Tyr Leu Leu Phe Gly Phe Asn Phe Ile Phe Trp Leu Ala Gly Ile  
           50                          55                          60  
 Ala Val Leu Ala Ile Gly Leu Trp Leu Arg Phe Asp Ser Gln Thr Lys  
           65                          70                          75                          80  
 Ser Ile Phe Glu Gln Glu Thr Asn Asn Asn Asn Ser Ser Phe Tyr Thr  
                           85                          90                          95  
 Gly Val Tyr Ile Leu Ile Gly Ala Gly Ala Leu Met Met Leu Val Gly  
                   100                          105                          110  
 Phe Leu Gly Cys Cys Gly Ala Val Gln Glu Ser Gln Cys Met Leu Gly  
           115                          120                          125  
 Leu Phe Phe Gly Phe Leu Leu Val Ile Phe Ala Ile Glu Ile Ala Ala  
           130                          135                          140  
 Ala Ile Trp Gly Tyr Ser His Lys Asp Glu Val Ile Lys Glu Val Gln  
   145                          150                          155                          160  
 Glu Phe Tyr Lys Asp Thr Tyr Asn Lys Leu Lys Thr Lys Asp Glu Pro  
                   165                          170                          175  
 Gln Arg Glu Thr Leu Lys Ala Ile His Tyr Ala Leu Asn Cys Xaa Gly  
                   180                          185                          190  
 Xaa Gly Trp Gly Ala Trp Lys Gln Xaa Tyr Leu Lys Lys Xaa Trp Pro  
           195                          200                          205

Gln

&lt;210&gt; 6816

&lt;211&gt; 123

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

## 6041

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (114)

6042

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (117)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6816

Val	Glu	Xaa	Asn	Ser	Pro	Xaa	Xaa	Arg	Xaa	Leu	Leu	Gln	Ile	Leu	Leu
1				5				10					15		

Ser	Phe	Ala	Ser	Gly	Gly	Leu	Leu	Gly	Asp	Ala	Phe	Leu	His	Leu	Ile
			20					25					30		

Pro	His	Ala	Leu	Glu	Pro	His	Ser	His	His	Thr	Leu	Glu	Gln	Pro	Gly
		35					40					45			

His	Gly	His	Ser	His	Ser	Gly	Gln	Gly	Pro	Ile	Leu	Ser	Val	Gly	Leu
	50					55					60				

Xaa	Xaa	Leu	Xaa	Gly	Ile	Xaa	Ala	Phe	Xaa	Asp	Val	Glu	Lys	Phe	Xaa
65					70					75					80

Arg	His	Val	Lys	Gly	Gly	His	Gly	His	Ser	His	Gly	His	Gly	His	Ala
				85					90					95	

His	Ser	His	Thr	Arg	Gly	Ser	His	Gly	His	Gly	Arg	Xaa	Glu	Arg	Ser
			100					105					110		

Thr	Xaa	Glu	Lys	Xaa	Ile	Ser	Glu	Glu	Glu	Asp
	115					120				

&lt;210&gt; 6817

&lt;211&gt; 137

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6817

Xaa	Asp	Ile	Glu	Phe	Ile	Tyr	Thr	Ala	Pro	Ser	Ser	Ala	Val	Cys	Gly
1				5				10					15		

Val	Ser	Leu	Asp	Val	Gly	Gly	Lys	Lys	Glu	Tyr	Leu	Ile	Ala	Gly	Lys
			20					25					30		

## 6043

Ala Glu Gly Asp Gly Lys Met His Ile Thr Leu Cys Asp Phe Ile Val  
           35                                  40                                  45

Pro Trp Asp Thr Leu Ser Thr Thr Gln Lys Lys Ser Leu Asn His Arg  
           50                                  55                                  60

Tyr Gln Met Gly Cys Glu Cys Lys Ile Thr Arg Cys Pro Met Ile Pro  
           65                                  70                                  75                                  80

Cys Tyr Ile Ser Ser Pro Asp Glu Cys Leu Trp Met Asp Trp Val Thr  
                                   85                                  90                                  95

Glu Lys Asn Ile Asn Gly His Gln Ala Lys Phe Phe Ala Cys Ile Lys  
                                   100                                  105                                  110

Arg Ser Asp Gly Ser Cys Ala Trp Tyr Arg Gly Ala Ala Pro Pro Lys  
           115                                  120                                  125

Gln Glu Phe Leu Asp Ile Glu Asp Pro  
           130                                  135

&lt;210&gt; 6818

&lt;211&gt; 158

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (124)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (135)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (147)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6818

Pro Arg Ala Arg Pro Ala Ala Pro Ala Ala Ala Pro Gly Pro Leu Ala  
       1                                  5                                  10                                  15

Ala Ala Thr Met Asp Ala Ile Lys Lys Lys Met Gln Met Leu Lys Leu  
                                   20                                  25                                  30

Asp Lys Glu Asn Ala Leu Asp Arg Ala Glu Gln Ala Glu Ala Asp Lys

## 6044

35                                      40                                      45  
 Lys Ala Ala Glu Asp Arg Ser Lys Gln Leu Glu Asp Glu Leu Val Ser  
     50                                      55                                      60  
 Leu Gln Lys Lys Leu Lys Gly Thr Glu Asp Glu Leu Asp Lys Tyr Ser  
     65                                      70                                      75                                      80  
 Glu Ala Leu Lys Asp Ala Gln Glu Lys Leu Glu Leu Ala Glu Lys Lys  
                                     85                                      90                                      95  
 Ala Thr Asp Ala Glu Ala Asp Val Ala Ser Leu Asn Arg Arg Ile Gln  
                                     100                                      105                                      110  
 Leu Val Glu Glu Glu Val Trp Ile Val Pro Lys Xaa Arg Ser Gly Asn  
                                     115                                      120                                      125  
 Ser Phe Ala Glu Thr Trp Xaa Lys Leu Glu Lys Ala Ala Asp Glu Ser  
                                     130                                      135                                      140  
 Glu Arg Xaa Met Lys Val Ile Glu Lys Ser Ser Pro Lys Arg  
     145                                      150                                      155

&lt;210&gt; 6819

&lt;211&gt; 37

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6819

Cys Lys Met Phe Ala Cys Ala Lys Leu Ala Cys Thr Pro Ser Leu Ile  
     1                                      5                                      10                                      15

Arg Ala Gly Ser Ile Val Ala Tyr Arg Pro Ile Ser Ala Ser Val Phe  
                                     20                                      25                                      30

Ile Ser Thr Arg Ser  
                                     35

&lt;210&gt; 6820

&lt;211&gt; 183

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (148)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 6045

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (160)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (172)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (178)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (180)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6820

Glu	Asn	Val	Leu	Lys	Thr	Ser	Gly	Lys	Leu	Arg	Glu	Asn	Leu	Leu	His
1				5					10					15	

Gly	Ala	Leu	Glu	His	Tyr	Val	Asn	Cys	Leu	Asp	Leu	Val	Asn	Lys	Arg
			20					25					30		

Leu	Pro	Tyr	Gly	Leu	Ala	Gln	Ile	Gly	Val	Cys	Phe	His	Pro	Val	Phe
		35					40					45			

Asp	Thr	Lys	Gln	Ile	Arg	Asn	Gly	Val	Lys	Ser	Ile	Gly	Glu	Lys	Thr
	50					55					60				

Glu	Ala	Ser	Leu	Val	Trp	Phe	Thr	Pro	Pro	Arg	Thr	Ser	Asn	Gln	Trp
65					70					75				80	

Leu	Asp	Phe	Trp	Leu	Arg	His	Arg	Leu	Gln	Trp	Trp	Arg	Lys	Phe	Ala
				85					90					95	

Met	Ser	Pro	Ser	Asn	Phe	Ser	Ser	Ser	Asp	Cys	Gln	Asp	Glu	Glu	Gly
			100					105					110		

Arg	Lys	Gly	Asn	Lys	Leu	Tyr	Tyr	Asn	Phe	Pro	Leu	Gly	Lys	Gly	Val
		115					120					125			

Asn	Arg	Asn	Pro	Val	Glu	Pro	Lys	Arg	Ser	Glu	Leu	Leu	His	Met	Tyr
		130				135					140				

Pro	Gly	Asn	Xaa	Ala	Lys	Leu	Pro	Trp	Pro	Lys	Trp	Thr	Lys	Lys	Xaa
145					150					155					160

6046

Gly Ser Leu Gly Ser Ser Leu Glu Met Gly Thr Xaa Thr Arg Gly Met  
165 170 175

Leu Xaa Asn Xaa Met Ile Leu  
180

<210> 6821

<211> 109

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

## 6047

<222> (29)

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<220>

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<222> (31)

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<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)



## 6048

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6821

Glu	Leu	Leu	Ser	Ser	Arg	Xaa	Leu	Xaa	Ala	Lys	Xaa	Xaa	Gly	Xaa	Ser
1				5					10					15	

Xaa	Xaa	Ser	His	Arg	Ala	Leu	Gln	Gly	Thr	Ile	Ala	Xaa	Asn	Xaa	Glu
			20					25					30		

Thr	Asp	Met	Gln	Val	Leu	Glu	Lys	Leu	Ser	Gly	Lys	Leu	Xaa	Glu	Arg
		35					40					45			

Xaa	Leu	Lys	Asp	Phe	Xaa	Met	Ile	Arg	Xaa	Met	Lys	Xaa	Lys	Leu	Asn
	50					55					60				

Pro	Gln	Asn	Ser	Xaa	Val	Met	Pro	Trp	Asp	Pro	Xaa	Tyr	Tyr	Ser	Gly
65					70					75					80

Val	Ile	Arg	Ala	Glu	Arg	Xaa	Asn	Ile	Glu	Pro	Ser	Leu	Tyr	Cys	Pro
				85					90					95	

Xaa	Phe	Xaa	Leu	Gly	Ala	Cys	Met	Glu	Ser	Leu	Asn	Ile
			100					105				

<210> 6822

<211> 144

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

6049

<220>  
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 <222> (21)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (107)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (123)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (131)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (132)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (143)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6822  
 Arg Thr Xaa Ala Xaa Gly Glu Arg Ala Cys Arg Ser Thr Leu Val Asp  
 1 5 10 15  
 Pro Lys Xaa Val Xaa Thr Val Phe Ser Leu Gly Ala Cys Met Glu Gly  
 20 25 30  
 Leu Asn Ile Leu Leu Asn Arg Leu Leu Gly Ile Ser Leu Tyr Ala Glu  
 35 40 45  
 Gln Pro Ala Lys Gly Glu Val Trp Ser Glu Asp Val Arg Lys Leu Ala  
 50 55 60  
 Val Val His Glu Ser Glu Gly Leu Leu Gly Tyr Ile Tyr Cys Asp Phe  
 65 70 75 80  
 Phe Gln Arg Ala Asp Lys Pro His Gln Asp Cys His Phe Thr Ile Arg  
 85 90 95  
 Gly Gly Arg Leu Lys Gly Arg Trp Glu Thr Xaa Gln Leu Pro Val Val  
 100 105 110

## 6050

Ser Ser Tyr Ala Gly Ile Phe Pro Val Pro Xaa Arg Glu Phe Ser Asn  
 115 120 125

Phe Gly Xaa Xaa Leu Gly Met Met Gly Lys Pro Phe Pro Gly Xaa Gly  
 130 135 140

<210> 6823

<211> 100

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6823

Ala Xaa Ser Ser Leu Trp Glu Ser Lys Pro Arg Xaa Gly Thr Glu Ala  
 1 5 10 15

Ser Glu Leu Leu Pro Thr Leu Asp Thr Lys Ala Pro Thr Gly Arg Arg  
 20 25 30

Thr Lys Pro Trp Gly Arg Leu Lys Arg Arg Ala Arg Ser Pro Gln Gly  
 35 40 45

Gln Thr Ala Lys Pro Gln Ser Cys Cys Gly Ala Glu His Arg Gly Pro  
 50 55 60

Gln Ala Leu Arg Lys Gly Arg Gly Asp Pro Gly Ala Arg Glu Arg Ser  
 65 70 75 80

Pro Arg Ala Ile Ser Arg Ala Gly Arg Arg Glu Pro Arg Ala Val His  
 85 90 95

Ser Cys Gly Leu  
 100

## 6051

<210> 6824  
 <211> 109  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (92)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (95)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (98)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (107)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6824  
 Phe Lys Arg Glu Thr Gly Val Asp Leu Thr Lys Asp Asn Met Ala Leu  
   1                  5                  10                  15  
 Gln Arg Val Arg Glu Ala Ala Glu Lys Ala Lys Cys Glu Leu Ser Ser  
                   20                  25                  30  
 Ser Val Gln Thr Asp Ile Asn Leu Pro Tyr Leu Thr Met Asp Ser Ser  
           35                  40                  45  
 Gly Pro Lys His Leu Asn Met Lys Leu Thr Arg Ala Gln Phe Glu Gly  
   50                  55                  60  
 Ile Val Thr Asp Leu Ile Arg Arg Thr Ile Ala Pro Cys Gln Lys Ala  
   65                  70                  75                  80  
 Met His Asp Ala Glu Val Ile Leu Ser Asp Ile Xaa Glu Val Xaa Pro  
                   85                  90                  95  
 Val Xaa Gly Met Thr Arg Met Pro Met Phe Xaa Arg Leu  
           100                  105

<210> 6825  
 <211> 48

6052

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6825

Ala	Arg	Glu	Xaa	Thr	Lys	Lys	Leu	Arg	Glu	Gln	Gly	Ser	Leu	Leu	Gly
1				5				10					15		

Lys	Leu	Val	Gln	Asn	Gly	Thr	Glu	Pro	Ser	Ser	Leu	Pro	Phe	Leu	Asp
			20					25					30		

Pro	Asn	Ala	Arg	Pro	Leu	Val	Pro	Glu	Val	Ser	Ile	Lys	Val	Gln	Arg
			35					40					45		

&lt;210&gt; 6826

&lt;211&gt; 69

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (12)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (55)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (61)

## 6053

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6826

Thr	Ala	Leu	Asn	Asn	Leu	Xaa	Pro	Asn	Tyr	Ala	Xaa	Glu	Lys	Leu	Gln
1				5				10						15	

Gln	Gln	Phe	Asn	Met	His	Val	Phe	Lys	Leu	Glu	Gln	Glu	Glu	Tyr	Met
			20					25						30	

Lys	Glu	Asp	Ile	Pro	Trp	Thr	Leu	Ile	Asp	Phe	Tyr	Asp	Xaa	Gln	Pro
		35					40					45			

Val	Phe	Asp	Leu	Ile	Glu	Xaa	Lys	Trp	Glu	Ser	Trp	Xaa	Phe	Trp	Xaa
	50						55				60				

Lys	Asn	Xaa	Cys	Phe
65				

<210> 6827

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6827

## 6054

Cys Leu Ser Trp Glu Arg Arg Gly Pro Ser Ser Ala Pro Pro Thr Val  
 1 5 10 15  
 Trp Glu Thr Val Pro Ser Pro Leu Leu Gly Ser Lys His Leu Phe Pro  
 20 25 30  
 Val Leu Met Glu Ser Trp Cys Leu Ser Pro Ser Ala Ala Gln Lys Leu  
 35 40 45  
 Cys Arg Leu Leu Gly Leu Gly Val Thr Asp Phe Ser Arg Ala Leu Leu  
 50 55 60  
 Thr Pro Arg Ile Lys Val Gly Arg Asp Tyr Val Gln Lys Ala Gln Thr  
 65 70 75 80  
 Lys Glu Gln Val Xaa Gly Ala Gly Gly Gly Gln Xaa Thr Xaa Arg Ala  
 85 90 95

<210> 6828

<211> 39

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6828

Leu Glu Asp Leu His Asp Leu Leu Ala Ser Leu Xaa Asn Asn Ala Xaa  
 1 5 10 15

## 6055

Asp Asp Tyr Leu Asn Ala Met Xaa Ser Glu Ala Pro Met Pro Ile Xaa  
                   20                  25                  30

Phe Ala Met Phe Leu Thr Met  
                   35

<210> 6829

<211> 136

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (134)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6829

Lys Val Leu Met Arg Asn Leu Ala Leu Pro Glu Asp Val Arg Gly Lys  
   1                  5                  10                  15

Cys Thr Ser Leu Leu Gln Leu Tyr Asp Ala Ser Asn Ser Glu Trp Gln  
                   20                  25                  30

Leu Gly Lys Thr Lys Val Phe Leu Arg Glu Ser Leu Glu Gln Lys Leu  
                   35                  40                  45

Glu Lys Arg Arg Glu Glu Glu Val Ser His Ala Ala Met Val Ile Arg  
                   50                  55                  60

Ala His Val Leu Gly Phe Leu Ala Arg Lys Gln Tyr Arg Lys Val Leu  
   65                  70                  75                  80

Tyr Cys Val Val Ile Ile Gln Lys Asn Tyr Arg Ala Phe Leu Leu Arg  
                   85                  90                  95

Arg Arg Phe Leu His Leu Lys Lys Ala Ala Ile Val Phe Gln Lys Gln  
                   100                  105                  110

Leu Arg Gly Gln Ile Ala Arg Arg Val Tyr Arg Gln Phe Ala Gly Arg  
                   115                  120                  125

Glu Lys Gly Ala Arg Xaa Lys Lys  
                   130                  135

<210> 6830

<211> 69



## 6056

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6830

Asn	Ser	Leu	Ala	Lys	Glu	Thr	Leu	Glu	Pro	Leu	Ser	Gln	Ala	Ala	Trp
1				5					10					15	

Leu	Leu	Gln	Val	Lys	Lys	Thr	Thr	Asp	Ser	Asp	Ala	Lys	Xaa	Ile	Tyr
			20					25					30		

Glu	Arg	Cys	Thr	Ser	Leu	Ser	Ala	Val	Gln	Ile	Ile	Lys	Xaa	Leu	Asn
		35					40					45			

Ser	Tyr	Thr	Pro	Ile	Asp	Asp	Phe	Glu	Lys	Arg	Val	Thr	Pro	Ser	Phe
	50					55					60				

Val	Arg	Lys	Val	Gln
65				

&lt;210&gt; 6831

&lt;211&gt; 179

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6831

Gly	Lys	Arg	Tyr	Ile	Lys	Ala	Leu	Ala	Glu	Glu	Asn	Arg	Asn	Val	Val
1				5					10					15	

Asp	Gly	Pro	Tyr	Ala	Gly	Val	Met	Thr	Ala	Tyr	Asp	Leu	Lys	Lys	Thr
			20					25					30		

Leu	Ala	Val	Leu	Leu	Asp	Asn	Ile	Leu	Gln	Arg	Ile	Gly	Lys	Leu	Glu
		35					40					45			

Ser	Lys	Val	Asp	Asn	Leu	Val	Val	Asn	Gly	Thr	Gly	Thr	Asn	Ser	Thr
	50						55					60			

Asn	Ser	Thr	Thr	Ala	Val	Pro	Ser	Leu	Val	Ala	Leu	Glu	Lys	Ile	Asn
65					70					75					80

6057

Val Ala Asp Ile Ile Asn Gly Ala Gln Glu Lys Cys Val Leu Pro Pro  
                             85                            90                            95  
 Met Asp Gly Tyr Pro His Cys Glu Gly Lys Ile Lys Trp Met Lys Asp  
                             100                            105                            110  
 Met Trp Arg Ser Asp Pro Cys Tyr Ala Asp Tyr Gly Val Asp Gly Ser  
                             115                            120                            125  
 Thr Cys Ser Phe Phe Ile Tyr Leu Ser Glu Val Glu Asn Trp Cys Pro  
                             130                            135                            140  
 His Leu Pro Trp Arg Ala Lys Asn Pro Tyr Glu Glu Ala Asp His Asn  
 145                            150                            155                            160  
 Ser Leu Ala Glu Ile Leu Gln Ile Phe Asn Ile Leu Tyr Ser Met Met  
                             165                            170                            175  
 Lys Lys Ala

&lt;210&gt; 6832

&lt;211&gt; 61

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6832

Ala Cys Arg Asp Val Arg Arg Leu Ser Leu Ser Val Met Ala Leu Lys  
     1                            5                            10                            15  
 Glu Gln Thr Ile Pro Pro Ser Ala Lys Tyr Gly Gly Arg His Thr Val  
                             20                            25                            30  
 Thr Met Ile Pro Gly Asp Gly Ile Gly Pro Glu Leu Met Leu His Val  
                             35                            40                            45  
 Lys Ser Val Phe Arg His Ala Cys Val Thr Ser Gly Leu  
     50                            55                            60

&lt;210&gt; 6833

&lt;211&gt; 33

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6833

Gln Lys Leu Ala Pro Ile Ser Ile Ile Tyr Gln Ile Ser Pro Ser Leu

## 6058

1 5 10 15  
Asn Val Ser Leu Leu Leu Thr Leu Ser Ile Leu Ser Ile Ile Ala Gly  
20 25 30

Ser

<210> 6834

<211> 29

<212> PRT

<213> Homo sapiens

<400> 6834

Thr Ile Thr Asn Thr Thr Asn Gln Tyr Ser Ser Leu Ile Ile Ile Met  
1 5 10 15

Ala Ile Ala Ile Lys Leu Gly Ile Ala Pro Phe His Phe  
20 25

<210> 6835

<211> 21

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6835

Xaa Gly Leu Asn Gln Thr Gln Leu Arg Lys Ile Leu Ala Tyr Ser Ser  
1 5 10 15

Ile Thr His Ile Xaa  
20

<210> 6836

<211> 29

<212> PRT

6059

&lt;213&gt; Homo sapiens

&lt;400&gt; 6836

Thr Ile Thr Asn Thr Thr Asn Gln Tyr Ser Ser Leu Ile Ile Ile Met  
1 5 10 15

Ala Ile Ala Ile Lys Leu Gly Ile Ala Pro Phe His Phe  
20 25

&lt;210&gt; 6837

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (14)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (35)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (44)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6837

Leu Thr Pro Leu Ile Pro Ser Thr Leu Xaa Ser Leu Gly Xaa Leu Pro  
1 5 10 15

Pro Leu Thr Gly Phe Leu Pro Lys Trp Ala Ile Ile Glu Glu Phe Thr  
20 25 30

Thr Asn Xaa Ser Leu Ile Ile Pro Thr Ile Xaa Xaa His Ile Thr Ser  
35 40 45

## 6060

Leu Asn Ser Asn Ser Asn Tyr Ala  
50 55

<210> 6838

<211> 53

<212> PRT

<213> Homo sapiens

<400> 6838

Leu Pro Gln Leu Asn Gly Tyr Ile Glu Lys Ser Thr Pro Tyr Glu Cys  
1 5 10 15

Gly Phe Asp Pro Ile Ser Pro Ala Arg Val Pro Phe Ser Ile Lys Phe  
20 25 30

Phe Leu Val Ala Ile Thr Phe Leu Leu Phe Asp Leu Glu Ile Ala Leu  
35 40 45

Leu Leu Pro Leu Pro  
50

<210> 6839

<211> 50

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6839

Ser Xaa Thr Gly Ala Val Ile Leu Ile Ile Ala His Gly Leu Thr Ser  
1 5 10 15

Ser Leu Leu Phe Cys Leu Ala Asn Ser Asn Tyr Glu Arg Thr His Arg  
20 25 30

## 6061

Arg Xaa Ile Ile Leu Ser Gln Gly Leu Gln Thr Leu Leu Pro Leu Ile  
35 40 45

Xaa Phe  
50

<210> 6840

<211> 16

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6840

Ile Ile Met Ala Ile Xaa Ile Lys Leu Gly Ile Ala Pro Phe His Phe  
1 5 10 15

<210> 6841

<211> 152

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

## 6062

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

## 6063

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (127)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (130)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6841

Pro	Leu	Ser	Lys	Val	Pro	Leu	Gln	Xaa	Asn	Phe	Gln	Asp	Asn	Gln	Phe
1				5				10						15	

Gln	Gly	Lys	Trp	Tyr	Val	Val	Gly	Leu	Ala	Xaa	Asn	Ala	Ile	Leu	Arg
		20					25						30		

Glu	Asp	Lys	Asp	Pro	Gln	Lys	Met	Tyr	Ala	Thr	Ile	Tyr	Glu	Leu	Lys
		35					40					45			

Glu	Asp	Xaa	Ser	Tyr	Asn	Val	Thr	Ser	Val	Leu	Phe	Xaa	Lys	Lys	Lys
		50				55					60				

Cys	Asp	Tyr	Trp	Ile	Xaa	Thr	Phe	Val	Pro	Xaa	Cys	Xaa	Pro	Gly	Glu
65				70						75					80

Phe	Thr	Leu	Gly	Asn	Ile	Xaa	Xaa	Tyr	Pro	Gly	Leu	Thr	Xaa	Tyr	Leu
				85					90					95	

Val	Arg	Val	Val	Xaa	Thr	Thr	Thr	Thr	Ser	Met	Leu	Trp	Cys	Ser	Ser
			100					105					110		

Lys	Lys	Phe	Leu	Xaa	Thr	Xaa	Asn	Ser	Ser	Xaa	Ser	Pro	Leu	Xaa	Lys
		115					120					125			

Asn	Xaa	Glu	Leu	Asp	Phe	Arg	Asn	Leu	Lys	Glu	Lys	Leu	Pro	Pro	Pro
	130					135					140				

Pro	Pro	Asn	Ser	Pro	Gly	Pro	Pro
145					150		

&lt;210&gt; 6842

&lt;211&gt; 116

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE



## 6064

&lt;222&gt; (60)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (72)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (97)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (98)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (102)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (108)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (113)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6842

Trp	Gly	Met	Ser	Cys	His	Gly	Leu	Gly	Arg	Thr	Glu	Ser	Asn	Arg	Thr
1				5				10					15		

Leu	Leu	Leu	Pro	Trp	Pro	His	Leu	Val	Gln	His	Arg	Arg	Pro	Lys	Pro
			20					25					30		

Gly	Leu	Ser	Pro	Leu	Ser	Pro	Thr	His	Leu	Ser	Leu	Pro	Arg	Lys	Lys
		35					40					45			

Lys	Cys	Asp	Tyr	Trp	Ile	Arg	Thr	Phe	Val	Pro	Xaa	Cys	Gln	Pro	Gly
	50					55					60				

Glu	Phe	Thr	Leu	Gly	Asn	Ile	Xaa	Ser	Tyr	Pro	Gly	Leu	Thr	Ser	Tyr
65					70					75					80

Leu	Val	Arg	Met	Val	Ser	Thr	Asn	Tyr	Asn	Gln	His	Ala	Met	Val	Phe
				85					90					95	

6065

Xaa Xaa Lys Val Ser Xaa Asn Arg Glu Val Leu Xaa Glu His Leu Leu  
100 105 110

Xaa Glu Asn Gln  
115

<210> 6843  
<211> 70  
<212> PRT  
<213> Homo sapiens

<400> 6843  
Arg Thr Gly Arg Trp Gly Gln Glu Met Val Leu Leu Ser Thr Leu Gly  
1 5 10 15

Ile Val Phe Gln Gly Glu Gly Pro Pro Ile Ser Ser Cys Asp Thr Gly  
20 25 30

Thr Met Ala Asn Cys Glu Arg Thr Phe Ile Ala Ile Lys Pro Asp Gly  
35 40 45

Val Gln Arg Gly Leu Val Gly Glu Ile Ile Lys Arg Phe Glu Gln Lys  
50 55 60

Gly Ser Ala Leu Leu Val  
65 70

<210> 6844  
<211> 138  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (122)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (131)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (132)  
<223> Xaa equals any of the naturally occurring L-amino acids

## 6066

&lt;400&gt; 6844

Leu Glu Ala Leu Phe Ser Asp Val Asn Met Gln Glu Tyr Pro Asp Leu  
 1 5 10 15  
 Ile His Ile Tyr Lys Gly Phe Glu Asn Val Ile His Asp Lys Leu Pro  
 20 25 30  
 Leu Gln Glu Ser Glu Glu Glu Glu Arg Glu Glu Arg Ser Gly Leu Gln  
 35 40 45  
 Leu Ser Leu Glu Gln Gly Thr Gly Glu Asn Ser Phe Arg Ser Leu Thr  
 50 55 60  
 Trp Pro Pro Ser Gly Ser Pro Ser His Ala Gly Thr Thr Pro Pro Glu  
 65 70 75 80  
 Asn Gly Leu Ser Glu His Pro Cys Glu Thr Glu Gln Ile Asn Ala Lys  
 85 90 95  
 Arg Lys Asp Thr Thr Ser Asp Lys Asp Asp Ser Leu Gly Ser Gln Gln  
 100 105 110  
 Thr Asn Glu Gln Cys Ala Gln Lys Ala Xaa Pro Thr Glu Val Cys Glu  
 115 120 125  
 Pro Ile Xaa Xaa Pro Ser Glu Ile Trp Gly  
 130 135

&lt;210&gt; 6845

&lt;211&gt; 133

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (7)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (128)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6845

Val His Leu Thr Lys Gly Xaa Lys Ala Gly Ala Pro Pro Arg Cys Gly  
 1 5 10 15  
 Arg Ser Arg Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Asp

6067

	20						25						30					
Ser Val Leu Arg Gly Cys Ser Leu Glu Gln Arg Ser Phe Ile Ser Val																		
	35						40						45					
Arg Leu Leu Ser Tyr Leu Ser Ala Cys Arg His Pro Met Glu Asp Ser																		
	50						55						60					
Met Asp Met Asp Met Ser Pro Leu Arg Pro Gln Asn Tyr Leu Phe Gly																		
	65						70						80					
Cys Glu Leu Lys Ala Asp Lys Asp Tyr His Phe Lys Val Asp Asn Asp																		
	85						90						95					
Glu Asn Glu His Gln Leu Ser Leu Arg Thr Val Ser Leu Gly Ala Gly																		
	100						105						110					
Ala Lys Asp Glu Leu His Ile Val Glu Ala Glu Ala Met Asn Tyr Xaa																		
	115						120						125					
Gly Ser Pro Leu Lys																		
	130																	

<210> 6846

<211> 146

<212> PRT

<213> Homo sapiens

**<220>**

<221> SITE

$\langle 222 \rangle$  (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6846

Glu	Lys	Ser	Arg	Glu	His	Glu	Ile	Asp	Gly	Arg	Ser	Ile	Ser	Leu	Tyr
1				5					10					15	
Tyr	Thr	Gly	Glu	Lys	Gly	Gln	Asn	Gln	Asp	Tyr	Arg	Gly	Gly	Lys	Asn
			20					25					30		
Ser	Thr	Trp	Ser	Gly	Glu	Ser	Lys	Thr	Leu	Val	Leu	Ser	Asn	Leu	Ser
		35					40					45			
Tyr	Ser	Ala	Thr	Glu	Glu	Thr	Leu	Gln	Glu	Val	Phe	Glu	Lys	Ala	Thr
	50					55					60				
Phe	Ile	Lys	Val	Pro	Gln	Asn	Gln	Asn	Gly	Lys	Ser	Lys	Gly	Tyr	Ala
65					70					75					80

## 6068

Phe Ile Glu Phe Ala Ser Phe Glu Asp Ala Lys Glu Ala Leu Asn Ser  
85 90 95

Cys Asn Lys Arg Glu Ile Glu Gly Arg Ala Ile Arg Leu Glu Leu Gln  
100 105 110

Gly Pro Arg Gly Ser Pro Asn Ala Arg Ser Gln Pro Ser Lys Thr Leu  
115 120 125

Phe Val Lys Gly Leu Ser Glu Asp Thr Thr Glu Glu Thr Leu Xaa Gly  
130 135 140

Val Ile  
145

<210> 6847

<211> 110

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

## 6071

Asn Pro Ala Leu Glu Leu Lys Arg Ala Thr Trp Leu Asn Ala Glu Lys  
 1 5 10 15  
 Asn Gly Gln Arg Pro Lys Thr Gln Leu Leu Pro Gln Lys Thr Thr Cys  
 20 25 30  
 Gln Lys Ile Pro Arg Asn Asn Arg Leu Met Tyr Ile His Ser Tyr Gln  
 35 40 45  
 Ser Tyr Val Trp Asn Asn Met Val Ser Lys Arg Ile Glu Asp Tyr Gly  
 50 55 60  
 Leu Asn Leu Phe Gln Gly Thr Ser Xaa Ser Lys Asp Pro Ser Pro Tyr  
 65 70 75 80  
 Ile Glu Glu Asp Asp Val Ile Ile Thr Leu Xaa Met Met Trp Glu Cys  
 85 90 95  
 Leu Ala Trp Phe Arg Trp Tyr Leu Pro Gln Ala Leu Lys Phe Lys Lys  
 100 105 110  
 Pro Thr Gly Lys Cys Ser Gln Leu Thr Ile  
 115 120

&lt;210&gt; 6850

&lt;211&gt; 81

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6850

Cys Thr Ile Cys Thr Ala Thr Ser Arg Val Gly Val Ile Gly Ile Gly  
 1 5 10 15  
 Gly Leu Gly His Ile Ala Ile Lys Leu Leu His Ala Met Gly Cys Glu  
 20 25 30  
 Val Thr Ala Phe Ser Ser Asn Pro Ala Lys Glu Gln Glu Val Leu Ala  
 35 40 45  
 Met Gly Ala Asp Lys Val Val Asn Ser Arg Asp Pro Gln Ala Leu Lys  
 50 55 60  
 Ala Leu Ala Gly Gln Phe Asp Leu Ile Ile Asn Thr Val Asn Val Ser  
 65 70 75 80  
 Leu

6072

&lt;210&gt; 6851

&lt;211&gt; 48

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 6851

Ala	Xaa	Xaa	Thr	Glu	Asn	Cys	Lys	Ile	Leu	Met	Thr	Lys	Ile	Lys	Glu
1				5				10					15		

Asp	Ile	Asn	Lys	Trp	Arg	Asn	Ile	Pro	Cys	Ser	Trp	Ile	Gly	Arg	Leu
		20					25					30			

Thr	Leu	Leu	Asn	Cys	His	Phe	Ser	Pro	Asp	Gly	Ser	Thr	Glu	Ser	Thr
	35						40					45			

&lt;210&gt; 6852

&lt;211&gt; 64

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (52)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (62)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (64)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

## 6073

&lt;400&gt; 6852

Ala Ala Ala Ala Ala Arg Arg Asp Ala Ala Glu Val Phe Leu Val Ser  
 1 5 10 15  
 Asp Pro Ser Gly Arg Met Val Lys Ser Ser Leu Gln Arg Ile Leu Asn  
 20 25 30  
 Ser His Cys Phe Ala Arg Glu Lys Glu Gly Asp Lys Pro Ser Ala Thr  
 35 40 45  
 Ile His Ala Xaa Arg Thr Met Pro Leu Leu Ser Leu His Xaa Pro Xaa  
 50 55 60

&lt;210&gt; 6853

&lt;211&gt; 106

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6853

Lys Gln Ser Pro Glu Leu Val Lys Lys His Lys Lys Lys Arg Val Val  
 1 5 10 15  
 Pro Lys Lys Pro Pro Pro Ser Pro Gln Pro Thr Gly Lys Ile Glu Ile  
 20 25 30  
 Lys Ile Val Arg Pro Trp Ala Glu Gly Thr Glu Glu Gly Ala Arg Trp  
 35 40 45  
 Leu Thr Asp Glu Asp Thr Arg Asn Leu Lys Glu Ile Phe Phe Asn Ile  
 50 55 60  
 Leu Val Pro Gly Ala Glu Glu Ala Gln Lys Glu Arg Gln Arg Gln Lys  
 65 70 75 80  
 Glu Leu Glu Ser Asn Tyr Arg Arg Val Trp Gly Ser Pro Gly Gly Glu  
 85 90 95  
 Gly Thr Gly Asp Leu Asp Glu Phe Asp Phe  
 100 105

&lt;210&gt; 6854

&lt;211&gt; 44

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens